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Version	Revision Date:	Date of last issue: 02.02.2022
6.0	07.02.2023	Date of first issue: 19.11.2012

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

1.1 Product identifier		
Trade name :		c Acid Isolation Kit - High Per-
Product code :	formance 05323738001	
1.2 Relevant identified uses of the		es advised against
Recommended restrictions : on use	For professional users only.	
1.3 Details of the supplier of the sa	afety data sheet	
Company	: Roche Diagnostics Deutschla	nd GmbH
	Sandhoferstrasse 116	
	68305 Mannheim	
	Deutschland	
Telephone	: +496217590	
Telefax Responsible Department	: +496217592890 : +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 Roche Diagnostics GmbH	+49(0)621-759-2203
Centre for detoxification:	Mainz	+49(0)6131-19240
	Munich	+49(0)89-19240
SECTION 2: Hazards identificat	ion	
2.1 Classification of the substance	e or mixture	
The product is a kit consisting of indi	vidual ingredients. The classifica	tion of the ingredients can be
obtained from section 3. Section Lab	el elements contains the resultin	g labelling for the kit.
2.2 Label elements		
Labelling (REGULATION (EC)	No 1272/2008)	
Hazard pictograms		$\wedge \wedge$
-		
		/ \•/
	$\mathbf{v}$ $\mathbf{v}$	· ·
Signal word :	Danger	

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Hazard statements	:	H225 H302 H315 H317 H318 H334 difficult H335 H336 H412	Highly flammable liquid and vapour. Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause allergy or asthma symptoms or breathing ies if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects.
Supplemental Hazard Statements	:	EUH03 gas.	2 Contact with acids liberates very toxic
Precautionary statemer	nts :	P261 P280 tion/fac <b>Respon</b> P304 + air and CENTE P305 + with wa sent an POISO P342 + POISO P370 +	Keep away from heat, hot surfaces, sparks, open and other ignition sources. No smoking. Avoid breathing dust. Wear protective gloves/ protective clothing/ eye protec- ce protection/ hearing protection.

#### 2.3 Other hazards

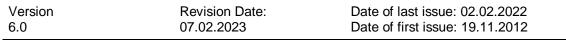
Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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.	
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.

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### Components

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

For explanation of abbreviations see section 16.

### Wash Buffer 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.

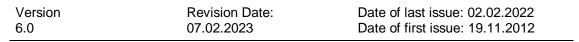
#### Components

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

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 (CBLB)

Classification (REGULATION (EC) No 1272/2008)		
Acute toxicity, Category 4	H302: Harmful if swallowed.	
Skin irritation, Category 2	H315: Causes skin irritation.	
Serious eye damage, Category 1	H318: Causes serious eye damage.	
Long-term (chronic) aquatic hazard, Cat- egory 3	H412: Harmful to aquatic life with long lasting ef- fects.	

#### Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No. Index-No.		(% w/w)
	Registration number		
guanidinium thiocyanate	593-84-0 209-812-1 615-004-00-3 01-2120735072-65	Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Corr. 1C; H314 Eye Dam. 1; H318 Aquatic Chronic 3; H412 EUH032, EUH071	>= 30,0 - < 50,0
		Acute toxicity esti- mate Acute oral toxicity: 593 mg/kg	
Polidocanol	9002-92-0 500-002-6	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 10,0 - < 20,0
		Acute toxicity esti- mate	
		Acute oral toxicity: 1.000 mg/kg	

For explanation of abbreviations see section 16.

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MagNA Pure LC Total Nucleic Acid Isolation Kit - High Perfor-
mance

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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 ex- posure, Category 3, Respiratory system	H335: May cause respiratory irritation.

#### Components

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

For explanation of abbreviations see section 16.

### Tissue Lysis/Proteinase K Buffer II

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

Not a hazardous substance or mixture.

#### Components

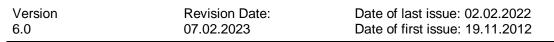
Remarks : No hazardous ingredients

For explanation of abbreviations see section 16.

### MGPs

#### 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 ex- posure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.



#### Components

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

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For explanation of abbreviations see section 16.

### Elution Buffer (d-EB)

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

Not a hazardous substance or mixture.

#### Components

Remarks

: No hazardous ingredients

For explanation of abbreviations see section 16.

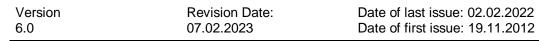
#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General advice	Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
lf inhaled	Call a physician or poison control centre immediately. Move to fresh air. If unconscious, place in recovery position and seek medical advice.
In case of skin contact	If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	Small amounts splashed into eyes can cause irreversible tis- sue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

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If swallowed	Keep respir Do NOT inc Do not give Never give If symptoms	h with water and drink afterwards plenty of wate atory tract clear. luce vomiting. milk or alcoholic beverages. anything by mouth to an unconscious person. s persist, call a physician. immediately to hospital.
4.2 Most important symptoms	and effects, both	acute and delayed
Symptoms	: No informat	ion available.
•	e medical attentic	on and special treatment needed
Treatment		Procedure should be established in consultation for responsible for industrial medicine.
SECTION 5: Firefighting me	asures	
5.1 Extinguishing media		
Suitable extinguishing medi	a : Alcohol-resi Carbon dio Dry chemica	kide (CO2)
Unsuitable extinguishing media	: High volume	e water jet
5.2 Special hazards arising fro	m the substance	or mixture
Specific hazards during fire- fighting	<ul> <li>Do not allow courses.</li> </ul>	v run-off from fire fighting to enter drains or wate
Hazardous combustion proc ucts	produced su Carbon oxic Nitrogen ox Sulphur oxic	des ides (NOx)
5.3 Advice for firefighters		
Special protective equipmer for firefighters	nt : Wear self-c essary.	ontained breathing apparatus for firefighting if ne
Further information	must not be Fire residue be disposed For safety r rately in clo	aminated fire extinguishing water separately. The discharged into drains. es and contaminated fire extinguishing water muthof in accordance with local regulations. easons in case of fire, cans should be stored se sed containments. r spray to cool fully closed containers.

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#### **SECTION 6: Accidental release measures**

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

Personal precautions	:	Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.
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 an electrically protected
		vacuum cleaner or by wet-brushing and place in container for
		disposal according to local regulations (see section 13).
		Keep in suitable, closed containers for disposal.

#### 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	:	<ul> <li>Avoid formation of respirable particles.</li> <li>Do not breathe vapours/dust.</li> <li>Avoid exposure - obtain special instructions before use.</li> <li>Avoid contact with skin and eyes.</li> <li>For personal protection see section 8.</li> <li>Smoking, eating and drinking should be prohibited in the application area.</li> <li>Take precautionary measures against static discharges.</li> <li>Provide sufficient air exchange and/or exhaust in work rooms.</li> <li>Open drum carefully as content may be under pressure.</li> <li>Dispose of rinse water in accordance with local and national regulations.</li> <li>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.</li> </ul>
Advice on protection against fire and explosion	:	Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed. 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.

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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 s	torage, incl	luding 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 care fully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.	
Further information or age conditions	n stor- :	See label, package insert or internal guidelines	
Storage class (TRGS	510) :	13	
Further information or age stability	n stor- :	No decomposition if stored and applied as directed.	
7.3 Specific end use(s)			
Specific use(s)	:	Laboratory chemicals	

### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

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

### **Occupational Exposure Limits**

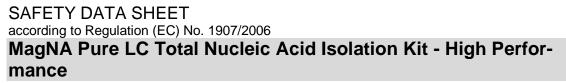
Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis	
ethanol	64-17-5	AGW	200 ppm	DE TRGS	
			380 mg/m3	900	
	Peak-limit: excursion factor (category): 4;(II)				
	Further information: When there is compliance with the OEL and biological				
	tolerance values, there is no risk of harming the unborn child				

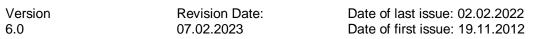
#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
ethanol	Workers	Inhalation	Acute local effects	1900 mg/m3
	Workers	Dermal	Chronic effects	343 mg/kg
	Workers	Inhalation	Chronic effects	950 mg/m3

#### 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

#### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis	
ethanol	64-17-5	AGW	200 ppm	DE TRGS	
			380 mg/m3	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				

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

Substance name	End Use	Exposure routes	Potential health ef-	Value
			fects	
ethanol	Workers	Inhalation	Acute local effects	1900 mg/m3
	Workers	Dermal	Chronic effects	343 mg/kg
	Workers	Inhalation	Chronic effects	950 mg/m3

#### 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 (CBLB)

#### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
guanidinium thio- cyanate	593-84-0	IOEL	100 microgram per cubic meter	Category 1 (Roche Group Directive K1, Annex 3): OEL = 100 µg/m3

### Proteinase K

#### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Proteinase, Tritira- chium album ser- ine	39450-01-6	IOEL	0,00006 mg/m3	Roche Indus- trial Hygiene Committee (RIHC)



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### Tissue Lysis/Proteinase K Buffer II

Contains no substances with occupational exposure limit values.

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
dipotassium hy- drogenorthophos- phate	Workers	Inhalation	Long-term systemic effects	4,07 mg/m3
	Consumers	Inhalation	Long-term systemic effects	3,04 mg/m3

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

Substance name	Environmental Compartment	Value
dipotassium hydrogenorthophos-	Fresh water	0,05 mg/l
phate		
	Marine water	0,005 mg/l
	Intermittent use/release	0,5 mg/l
	Sewage treatment plant	100 mg/l

#### MGPs

#### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis		
propan-2-ol	67-63-0	AGW	200 ppm 500 mg/m3	DE TRGS 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 (Blood)	Immediately after exposure or after working hours	TRGS 903
		Acetone: 25 mg/l (Urine)	Immediately after exposure or after working hours	TRGS 903

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
propan-2-ol	Workers	Dermal	Long-term systemic effects	888 mg/kg
	Workers	Inhalation	Long-term systemic effects	500 mg/m3

#### 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

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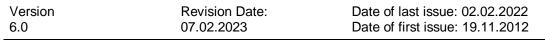
Marine water	140,9 mg/l
Fresh water sediment	552 mg/kg
Marine sediment	552 mg/kg
Soil	28 mg/kg

### Elution Buffer (d-EB)

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls **Engineering measures** No data available Personal protective equipment Eye/face protection Use eye protection according to EN 166. : Eye wash bottle with pure water Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems. Hand protection In case of contact through splashing: Material Nitrile rubber Break through time > 30 min : Glove thickness : > 0,11 mm In case of full contact: Material butyl-rubber > 480 min Break through time : 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 Choose body protection according to the amount and con-: centration of the dangerous substance at the work place. Respiratory protection In the case of dust or aerosol formation use respirator with an 1 approved filter. Effective dust mask

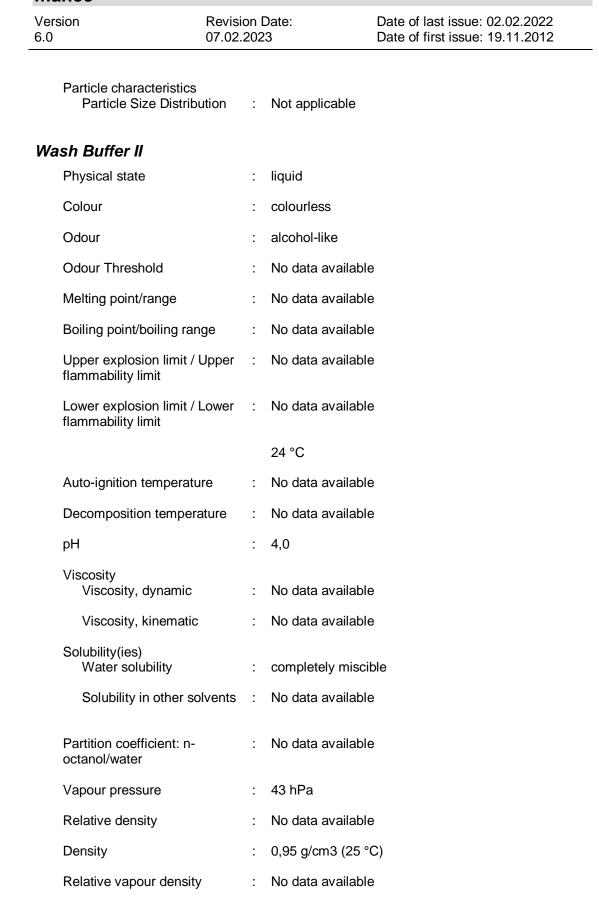
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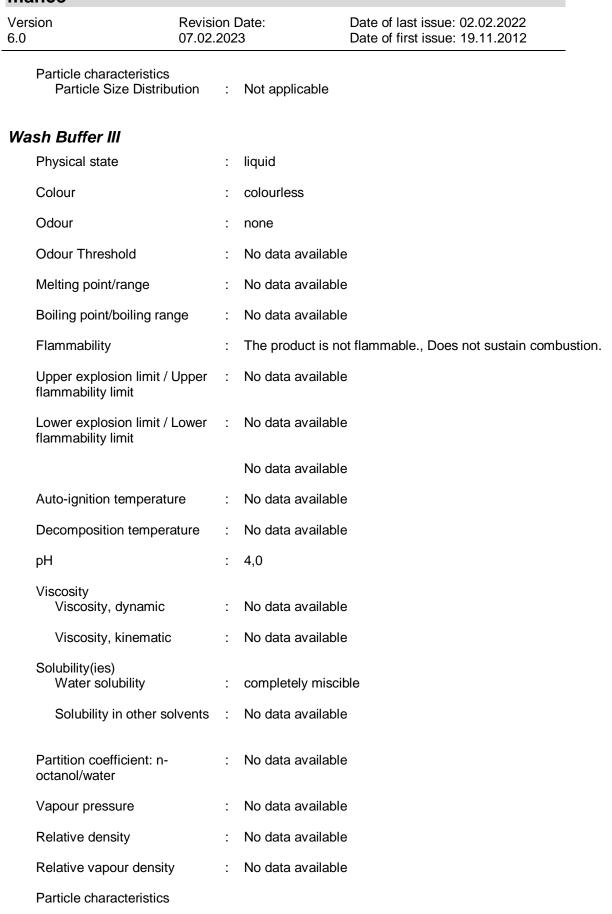


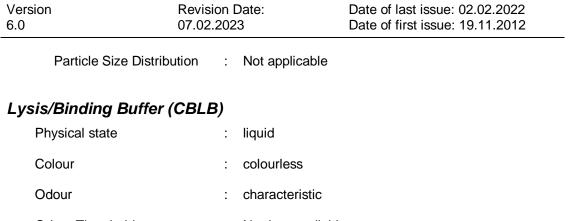
### **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties *Wash Buffer I (d-WB I m/I)*

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
Decomposition temperature	:	No data available
рН	:	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/cm3
Relative vapour density	:	No data available







	-	
Odour	:	characteristic
Odour Threshold	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flammability	:	Does not sustain combustion.
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
		No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	Hazardous decomposition products formed under fire condi- tions.
pH	:	5,0
Viscosity	:	
Viscosity Viscosity, dynamic	:	No data available
Viscosity Viscosity, dynamic Viscosity, kinematic	:	
Viscosity Viscosity, dynamic	:	No data available
Viscosity Viscosity, dynamic Viscosity, kinematic Solubility(ies)	-	No data available No data available
Viscosity Viscosity, dynamic Viscosity, kinematic Solubility(ies) Water solubility	-	No data available No data available No data available
Viscosity Viscosity, dynamic Viscosity, kinematic Solubility(ies) Water solubility Solubility in other solvents Partition coefficient: n-	:	No data available No data available No data available
Viscosity Viscosity, dynamic Viscosity, kinematic Solubility(ies) Water solubility Solubility in other solvents Partition coefficient: n- octanol/water	:	No data available No data available No data available No data available
Viscosity Viscosity, dynamic Viscosity, kinematic Solubility(ies) Water solubility Solubility in other solvents Partition coefficient: n- octanol/water Vapour pressure	:	No data available No data available No data available No data available No data available

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Particle Size Distrib	ution :	Not applicat	ble
Proteinase K			
Physical state	:	solid, (lyoph	ilised)
Colour	:	white	
Odour	:	very faint	
Odour Threshold	:	Not applicat	ble
Melting point/range	:	No data ava	ilable
Boiling point/boiling rar	nge :	No data ava	ilable
Flammability	:	Sustains co	mbustion
Upper explosion limit / flammability limit	Upper :	No data ava	ilable
Lower explosion limit / flammability limit	Lower :	No data ava	ilable
		does not fla	sh
Auto-ignition temperatu	ure :	No data ava	ilable
Decomposition temper	ature :	Decompose	es on heating.
рН	:	6,5 (as aqueous	s solution)
Viscosity Viscosity, dynamic	:	Not applicat	ble
Viscosity, kinematic	:	Not applicat	ble
Solubility(ies) Water solubility	:	soluble	
Solubility in other so	olvents :	No data ava	ilable
Partition coefficient: n- octanol/water	:	No data ava	ilable
Vapour pressure	:	No data ava	ilable
Relative density	:	No data ava	ilable
Bulk density	:	ca. 35 kg/m	3
Relative vapour density	<b>/</b> :	Not applicat	ble

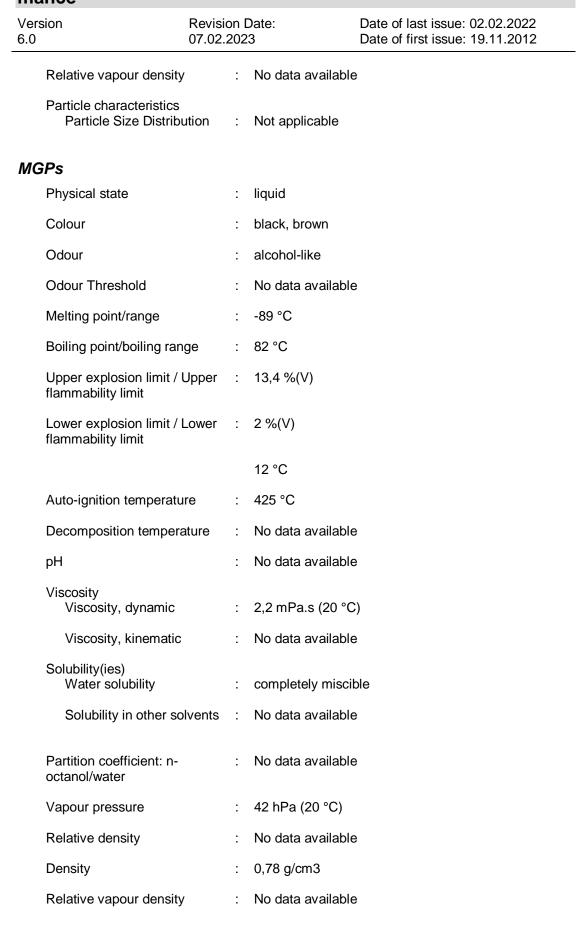
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Particle characteristics		
Particle Size Distribution	:	No data available

### Tissue Lysis/Proteinase K Buffer II

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	:	Does not sustain combustion.
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
		No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	6,6 - 6,9
pH Viscosity Viscosity, dynamic	:	
Viscosity		
Viscosity Viscosity, dynamic	:	No data available
Viscosity Viscosity, dynamic Viscosity, kinematic Solubility(ies)	:	No data available No data available completely miscible
Viscosity Viscosity, dynamic Viscosity, kinematic Solubility(ies) Water solubility	:	No data available No data available completely miscible
Viscosity Viscosity, dynamic Viscosity, kinematic Solubility(ies) Water solubility Solubility in other solvents Partition coefficient: n-	::	No data available No data available completely miscible No data available
Viscosity Viscosity, dynamic Viscosity, kinematic Solubility(ies) Water solubility Solubility in other solvents Partition coefficient: n- octanol/water	::	No data available No data available completely miscible No data available No data available
Viscosity Viscosity, dynamic Viscosity, kinematic Solubility(ies) Water solubility Solubility in other solvents Partition coefficient: n- octanol/water Vapour pressure	::	No data available No data available completely miscible No data available No data available



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Particle characteristics		
Particle Size Distribution	:	Not applicable

### Elution Buffer (d-EB)

Physical state	:	liquid
Colour	:	colourless
Odour	:	odourless
Odour Threshold	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	ca. 100 °C (1.013 hPa)
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
		No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	5 - 9 (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	:	No data available
Relative density	:	No data available
Relative vapour density	:	No data available

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Particle characteristics Particle Size Distribution : Not applicable

### 9.2 Other information Wash Buffer I (d-WB I m/I)

Explosives	: N	lot explosive
Oxidizing properties	: Т	he substance or mixture is not classified as oxidizing.
Flammability (liquids)	: S	Sustains combustion
Self-ignition	: 4	25 °C
Evaporation rate	: N	lo data available
Miscibility with water	: с	ompletely miscible

### Wash Buffer 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.
Flammability (liquids)	: Does not sustain combustion.
Self-ignition	: No data available
Evaporation rate	: No data available
Miscibility with water	: No data available

### Lysis/Binding Buffer (CBLB)

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 ava	ilable
Evaporation rate	: No data ava	ilable
Miscibility with water	: completely	niscible
Proteinase K		
Explosives	: Not explosiv	/e
Oxidizing properties	: The substar	nce or mixture is not classified as oxidizing.
Flammability (liquids)	: Sustains co	mbustion
Self-ignition	: No data ava	ilable
Evaporation rate	: No data ava	ilable
Miscibility with water	: No data ava	ilable

### Tissue Lysis/Proteinase K Buffer II

Explosives	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Flammability (liquids)	:	The product is not flammable., Does not sustain combustion.
Self-ignition	:	No data available
Evaporation rate	:	No data available
Miscibility with water	:	completely miscible

### MGPs

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 (d-EB)

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

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Flammability (liquids)	: Does not susta	ain combustion.
Self-ignition	: No data availa	able
Evaporation rate	: No data availa	able
Miscibility with water	: completely mis	scible

### **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.

#### 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

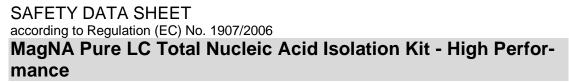
#### **10.6 Hazardous decomposition products**

In case of fire hazardous decomposition products may be produced such as: Carbon oxides Nitrogen oxides (NOx) 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)



'ersion .0	Revision Date: 07.02.2023	Date of last issue: 02.02.2022 Date of first issue: 19.11.2012
Acute toxicity Harmful if swallowed.		
<u>Components:</u>		
guanidinium chloride Acute oral toxicity	: LD50 Oral (	Rat, female): 475 mg/kg CD Test Guideline 401
		ty estimate: 475 mg/kg Iculation method
Acute inhalation toxicity	Exposure tir Test atmosp	female): 3,2 mg/l me: 4 h bhere: dust/mist CD Test Guideline 403
	Exposure tir Test atmosp	male and female): 5,32 mg/l me: 4 h bhere: dust/mist CD Test Guideline 403
	Exposure tir Test atmosp	male): 7,7 mg/l me: 4 h bhere: dust/mist CD Test Guideline 403
	Test atmosp	ty estimate: 3,2 mg/l bhere: dust/mist lculation method
Acute dermal toxicity	Method: OE GLP: yes Assessmen toxicity	al (Rabbit, male and female): > 2.000 mg/kg CD Test Guideline 402 t: The substance or mixture has no acute derr lo mortality observed at this dose.
ethanol:		
Acute oral toxicity		male and female): 10.470 mg/kg CD Test Guideline 401
Acute inhalation toxicity	Exposure tir Test atmosp	male and female): 124,7 mg/l me: 4 h bhere: vapour CD Test Guideline 403
Acute dermal toxicity	: (Rabbit): 17	7.100 mg/kg



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GLP: No information available. Remarks: Based on data from similar materials

#### Skin corrosion/irritation

Causes skin irritation.

#### **Components:**

#### guanidinium chloride:

ı to skin.

#### 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**

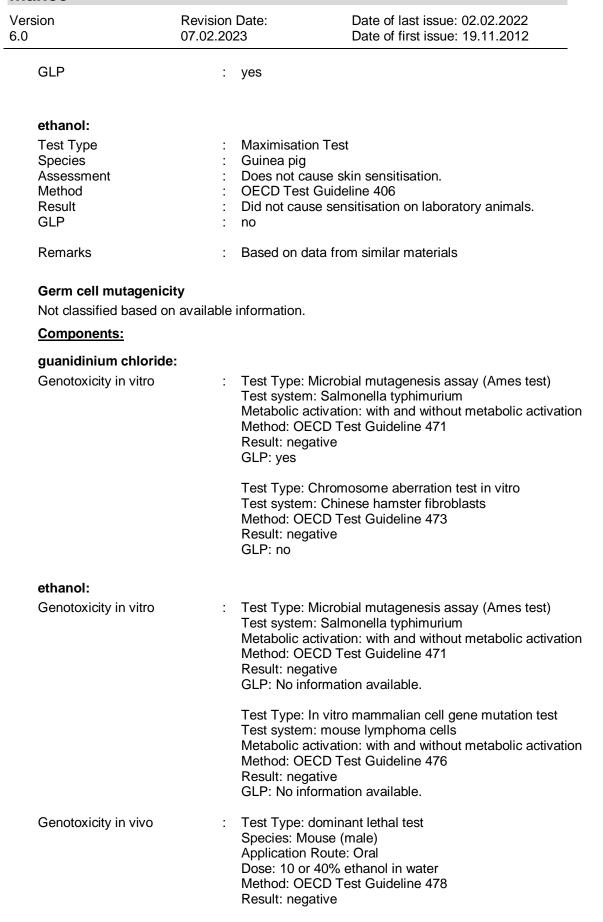
Not classified based on available information.

#### Components:

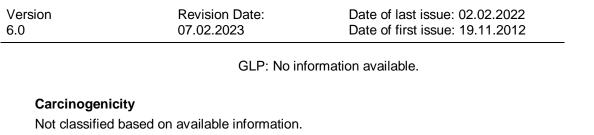
#### guanidinium chloride:

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

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### Components:

#### ethanol:

Application Route :	Mouse, male and female inhalation (vapour) 18 month(s)
Control Group :	Ves
•	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:

#### guanidinium chloride:

Effects on foetal develop- ment	:	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 develop- ment	:	Species: Rat, female Strain: Sprague-Dawley Application Route: Ingestion Duration of Single Treatment: 6 Weeks

GLP: No information available.

Developmental Toxicity: NOAEL: 5.200 mg/kg body weight

#### STOT - single exposure

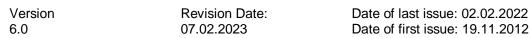
Not classified based on available information.

#### **STOT - repeated exposure**

Not classified based on available information.

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#### Repeated dose toxicity

#### **Components:**

#### guanidinium chloride:

Species NOAEL Application Route	:	Rat, male and female 100 mg/kg Oral
Exposure time	:	90 d
Dose	:	25, 100, 300 mg/kg bw/day
Method	:	OECD Test Guideline 408
GLP	:	yes
ethanol:		
Species	:	Rat, male and female
LÖAEL	:	3156 mg/kg
Application Route	:	Oral

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

#### Acute toxicity

Not classified based on available information.

#### Components:

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:

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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
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 Species Assessment Method Result GLP	<ul> <li>Maximisation Test</li> <li>Guinea pig</li> <li>Does not cause skin sensitisation.</li> <li>OECD Test Guideline 406</li> <li>Did not cause sensitisation on laboratory animals.</li> <li>no</li> </ul>
Remarks	: Based on data from similar materials

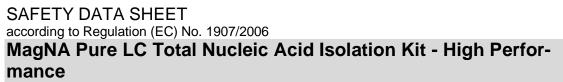
#### Germ cell mutagenicity

Not classified based on available information.

#### **Components:**

ethanol:

Genotoxicity in vitro	<ul> <li>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.</li> </ul>
	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



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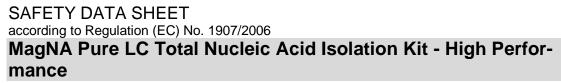
	Revision Date: 07.02.2023	Date of last issue: 02.02.2022 Date of first issue: 19.11.2012
	Result: neg GLP: No ini	ative formation available.
Genotoxicity in vivo	Species: M Application Dose: 10 or Method: OE Result: neg	dominant lethal test ouse (male) Route: Oral 40% ethanol in water ECD Test Guideline 478 ative formation available.
<b>Carcinogenicity</b> Not classified based on a	available information.	
Components:		
ethanol:		
Species Application Route Exposure time Control Group Frequency of Treatment Method Result GLP Remarks	inhalation ( 18 month(s yes 19 hours/da OECD Test negative No informat	)
Reproductive toxicity		
Not classified based on a	available information.	
Components:		
ethanol:		
Effects on fertility	Species: M Application General To Method: OE Result: No	Two-generation study ouse, male and female Route: Oral xicity - Parent: NOAEL: 20.700 mg/kg body we ECD Test Guideline 416 effects on fertility formation available.
Effects on foetal develop ment	Strain: Spra Application Duration of	at, female ague-Dawley Route: Ingestion Single Treatment: 6 Weeks ntal Toxicity: NOAEL: 5.200 mg/kg body weigh

#### STOT - single exposure

Not classified based on available information.

#### **STOT - repeated exposure**

Not classified based on available information.



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#### Repeated dose toxicity

#### **Components:**

#### ethanol:

Species	:	Rat, male and female
LÖAEL	:	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 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 (CBLB)

rsion )	Revision Date: 07.02.2023	Date of last issue: 02.02.2022 Date of first issue: 19.11.2012
Acute toxicity Harmful if swallo	wed.	
Components:		
guanidinium thi	ocyanate:	
Acute oral toxicit	Method:	ral (Rat, female): 593 mg/kg OECD Test Guideline 401 ms: Vomiting s
		xicity estimate: 593 mg/kg Calculation method
Acute inhalation		nent: Corrosive to the respiratory tract., The compo ture is moderately toxic after short term inhalation.
Acute dermal tox		nent: The component/mixture is moderately toxic af ontact with skin.
Polidocanol:		
Acute oral toxicit		ral (Rat): 1.000 mg/kg OECD Test Guideline 423 s
		xicity estimate: 1.000 mg/kg Calculation method
Acute dermal tox		ermal (Rat, male and female): > 2.000 mg/kg OECD Test Guideline 402 s
Skin corrosion/i		
Causes skin irrita	ation.	
Components:		
<b>guanidinium thi</b> Species Exposure time Method Result GLP	: Rabbit : 4 h : OECD T	est Guideline 404 e after 1 to 4 hours of exposure
Polidocanol:		
Species Exposure time Method Result GLP	: Rabbit : 4 h : OECD T : No skin : yes	est Guideline 404 irritation



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#### Serious eye damage/eye irritation

Causes serious eye damage.

#### Components:

#### Polidocanol:

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	Risk of serious damage to eyes.
GLP	:	yes

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#### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.

#### Components:

#### Polidocanol:

Test Type	:	Draize Test
Species	:	Guinea pig
Result	:	Does not cause skin sensitisation.
GLP	:	no

#### 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 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

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rsion )	Revision Date: 07.02.2023	Date of last issue: 02.02.2022 Date of first issue: 19.11.2012
Polidocanol:		
Genotoxicity in vitro		n: Salmonella typhimurium ctivation: with and without metabolic activatio
	Test system	Chromosome aberration test in vitro n: Chinese hamster cells ctivation: with and without metabolic activation ative
		In vitro mammalian cell gene mutation test n: mouse lymphoma cells ative
Genotoxicity in vivo	Species: Me Strain: B6C Cell type: B	one marrow Route: Intraperitoneal injection me: 72 h ng/kg

Not classified based on available information.

#### Reproductive toxicity

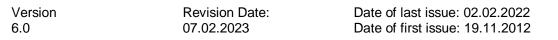
Not classified based on available information.

### 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 develop- : ment	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
Polidocanol:	
Effects on foetal develop- : ment	Test Type: Two-generation study Species: Rat, female Application Route: Oral Developmental Toxicity: NOAEL: 50 mg/kg bw/day

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#### STOT - single exposure

Not classified based on available information.

#### STOT - repeated exposure

Not classified based on available information.

#### **Repeated dose toxicity**

#### **Components:**

#### guanidinium thiocyanate:

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

#### Polidocanol:

Species	: Rat, male
NOAEL	: 390 mg/kg bw/day
Application Route	: Oral
Exposure time	: 22 d

#### 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.

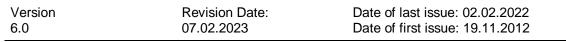
#### Serious eye damage/eye irritation

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:

 May cause sensitisation by skin contact. Causes sensitisation.

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Assessment

May cause sensitisation by inhalation.

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#### 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

May cause respiratory irritation.

#### Components:

Proteinase, Tritirachium album serine:

Assessment : May cause respiratory irritation.

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#### 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

### Tissue Lysis/Proteinase K Buffer II

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Acute toxici	ty		
Not classified	l based on availa	ble information.	
Skin corrosi	on/irritation		
Not classified	l based on availa	ble information.	
Serious eye	damage/eye irri	tation	
Not classified	based on availa	ble information.	
Respiratory	or skin sensitis	ation	
Skin sensiti	sation		
Not classified	l based on availa	ble information.	
Respiratory	sensitisation		
Not classified	based on availa	ble information.	
Germ cell m			
	based on availa	ble information.	
Carcinogeni	•		
	l based on availa	ble information.	
Reproductiv Not classified	<b>e toxicity</b> based on availa	ble information.	
STOT - sing	le exposure		
Not classified	l based on availa	ble information.	
STOT - repe	ated exposure		
Not classified	l based on availa	ble information.	
Aspiration to	-		
Not classified	based on availa	ble information.	
MGPs			
Acute toxici	ty		
Not classified	l based on availa	ble information.	
<u>Component</u>	<u>s:</u>		
propan-2-ol:	:		
Acute oral to		: LD50 (Rat):	
		Method: OE( GLP: no	CD Test Guideline 401
		GLF. NU	
Acute inhalat	ion toxicity		nale and female): > 10000 ppm
		Exposure tim Test atmospl	
		Method: OEC	CD Test Guideline 403
		GLP: yes	

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#### Skin corrosion/irritation

Not classified based on available information.

#### Components:

#### propan-2-ol:

: Rabbit
: 4 h
: No skin irritation
: 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
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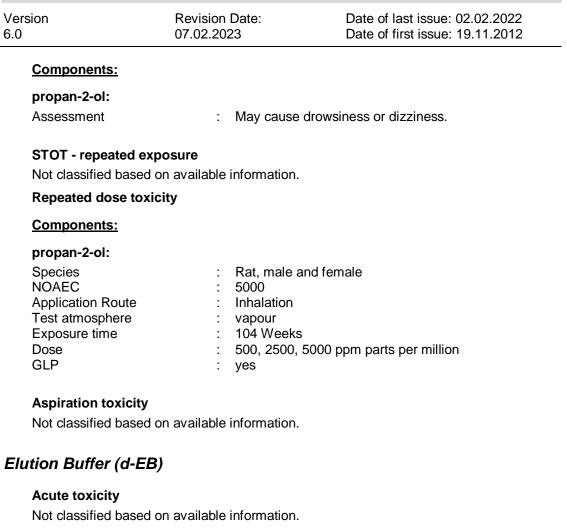
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mance

ersion O	Revision Date: 07.02.2023	Date of last issue: 02.02.2022 Date of first issue: 19.11.2012
	Test system Metabolic a	Microbial mutagenesis assay (Ames test) n: Salmonella typhimurium ctivation: with and without metabolic activation ECD Test Guideline 471 ative
Genotoxicity in vivo	Species: Me Cell type: B Application	In vivo micronucleus test ouse (male and female) one marrow Route: Intraperitoneal injection ECD Test Guideline 474 ative
Carcinogenicity Not classified based on	available information.	
Components:		
<b>propan-2-ol:</b> Species Application Route Exposure time Frequency of Treatmer Method GLP		vapour)
Reproductive toxicity Not classified based on		
Components:		
propan-2-ol: Effects on fertility	Application General To	at, male and female Route: Oral xicity - Parent: NOAEL: 853 mg/kg body weig ECD Test Guideline 415
Effects on foetal develo ment	Application Dose: 596, Duration of General To Developme	at, male and female Route: Oral 1242, 1605 mg/kg bw/day Single Treatment: 6 - 16 d xicity Maternal: NOAEL: 596 mg/kg body weigh ntal Toxicity: NOAEL: 596 mg/kg body weight ECD Test Guideline 414

## STOT - single exposure

May cause drowsiness or dizziness.

Roch



## 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.

2

#### 11.2 Information on other hazards

#### **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.

Roch

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

Endocrine disrupting prope	es	
<u>Product:</u> Assessment	The substance/mixture does not contain components consid	4-
	ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 a levels of 0.1% or higher.	
Further information		
Product:		

Remarks

Solvents may degrease the skin.

#### Wash Buffer 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:

Version 6.0	Revision Date: 07.02.2023	Date of last issue: 02.02.2022 Date of first issue: 19.11.2012
Assessment	ered to have REACH Arti (EU) 2017/2	nce/mixture does not contain components consid- e endocrine disrupting properties according to cle 57(f) or Commission Delegated regulation 2100 or Commission Regulation (EU) 2018/605 at % or higher.
Lysis/Binding Buffer	(CBLB)	
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.

Roch

## 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.

## Tissue Lysis/Proteinase K Buffer 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.

## MGPs

#### 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:

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
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mance

Version 6.0	Revision Date: 07.02.2023	Date of last issue: 02.02.2022 Date of first issue: 19.11.2012
Remarks	tiredness, na Concentration narcotic effe	f overexposure may be headache, dizziness, ausea and vomiting. ons substantially above the TLV value may cause cts. y degrease the skin.
Elution Buffer (d-EB)	)	
Endocrine disrupting	g properties	
Product: Assessment	: The substan	ce/mixture does not contain components consid-

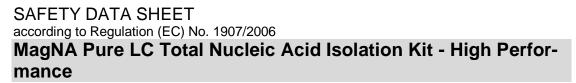
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## **SECTION 12: Ecological information**

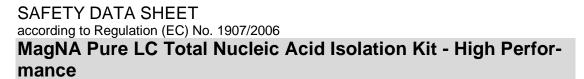
## 12.1 Toxicity Wash Buffer I (d-WB I m/I)

#### 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



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	mg/l End point: G Exposure tin Test Type: s Analytical m	ne: 72 h
Toxicity to microorganisr	End point: G Exposure tin Test Type: s	ne: 18 h
Toxicity to fish (Chronic ticity)	End point: m Exposure tin Species: Pin Test Type: fl Analytical m Method: OE	ortality
Toxicity to daphnia and o aquatic invertebrates (Cl ic toxicity)	nron- End point: re Exposure tin Species: Da Analytical m Method: OE	eproduction rate
Ecotoxicology Assessi Acute aquatic toxicity		has no known ecotoxicological effects.
Chronic aquatic toxicity	This product	has no known ecotoxicological effects.
Toxicity Data on Soil	: Not expected	d to adsorb on soil.
Other organisms relevant the environment	it to : No data ava	ilable
ethanol: Toxicity to fish	: LC50 (Pimer End point: m	phales promelas (fathead minnow)): 15.300 m nortality



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	Analytical m	me: 96 h flow-through test nonitoring: yes formation available.
Toxicity to daphnia and c aquatic invertebrates	Exposure ti Test Type:	
Toxicity to algae/aquatic plants	Exposure ti Analytical m Method: OE	rella vulgaris (Fresh water algae)): 275 mg/l me: 5 d nonitoring: no ECD Test Guideline 201 formation available.
Toxicity to microorganisn	End point: C Exposure ti Test Type: Analytical m Method: OE GLP: No inf	me: 3 h
Toxicity to fish (Chronic t icity)	Exposure ti Species: Da	
Toxicity to daphnia and c aquatic invertebrates (Ch ic toxicity)	hron- Exposure ti	
Ecotoxicology Assessr	ment	
Toxicity Data on Soil	: Not expected	ed to adsorb on soil.
Other organisms relevan the environment	nt to : No data ava	ailable
Wash Buffer II		
Components:		
ethanol:		
Toxicity to fish	End point: r Exposure ti	

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

Test Type: flow-through test Analytical monitoring: yes

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	Revision 07.02.20		Date of last issue: 02.02.2022 Date of first issue: 19.11.2012
		Test Type: GLP: No ir	static test formation available.
Toxicity to algae/aquatic plants	: :	Exposure Analytical Method: O	orella vulgaris (Fresh water algae)): 275mg/l time: 5 d monitoring: no ECD Test Guideline 201 nformation available.
Toxicity to microorganis	ms :	End point: Exposure Test Type: Analytical Method: O GLP: No ir	rated sludge): > 1.000 mg/l Growth rate time: 3 h static test monitoring: yes ECD Test Guideline 209 nformation available. Based on data from similar materials
Toxicity to fish (Chronic icity)	tox- :	Species: D	0 mg/l time: 120 h Danio rerio (zebra fish) nformation available.
Toxicity to daphnia and aquatic invertebrates (C ic toxicity)		Exposure	
Ecotoxicology Assess	ment		
Toxicity Data on Soil	:	Not expec	ted to adsorb on soil.
Other organisms relevant the environment	nt to :	No data av	vailable
Wash Buffer III			
No data available Lysis/Binding Buffer (	CBLB)		
Components:			
guanidinium thiocyana	ate:		
Toxicity to fish	:	End point: Exposure Test Type: Analytical	
Toxicity to daphnia and aquatic invertebrates	other :	End point: Exposure Test Type:	ohnia (water flea)): 42,4 mg/l Immobilization time: 48 h static test monitoring: no

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/ersion 6.0	Revision 07.02.202	
		Method: OECD Test Guideline 202 GLP: no
Toxicity to algae/aqua plants	tic :	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 microorgar	iisms :	EC50 (activated sludge): > 185 mg/l Exposure time: 28 d Test Type: static test Method: OECD Test Guideline 302B GLP: yes
Ecotoxicology Asse	ssment	
Chronic aquatic toxicit		Harmful to aquatic life with long lasting effects.
Toxicity Data on Soil	:	Not expected to adsorb on soil.
Other organisms relevent the environment	vant to :	No data available
Polidocanol:		
Toxicity to fish	:	LC50 (Salmo salar (Atlantic salmon)): 1,5 mg/l End point: mortality Exposure time: 96 h
Toxicity to daphnia an aquatic invertebrates	d other :	EC50 (Daphnia magna (Water flea)): 6,46 mg/l Exposure time: 48 h
Toxicity to algae/aqua plants	tic :	ErC50 (Desmodesmus subspicatus (green algae)): 0,237 m Exposure time: 72 h Method: OECD Test Guideline 201
		EbC50 (Desmodesmus subspicatus (green algae)): 1.502 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to microorgar	isms :	(Photobacterium phosphoreum): 2,5 mg/l Test Type: EC50
Toxicity to daphnia an aquatic invertebrates ic toxicity)		NOEC: 0,144 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: QSAR
Ecotoxicology Asse	ssment	
Acute aquatic toxicity	:	Toxic to aquatic life. Remarks: Expert judgement

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

## Proteinase K

#### Components:

#### Proteinase, Tritirachium album serine:

Ecotoxicology Assessment		
Toxicity Data on Soil	:	Not expected to adsorb on soil.
Other organisms relevant to the environment	:	No data available

## Tissue Lysis/Proteinase K Buffer II

## No data available *MGPs*

#### Components:

propan-2-ol:		
Toxicity to fish	Enc Exp Tes Ana Met	60 (Pimephales promelas (fathead minnow)): 10.000 mg/l l point: mortality osure time: 96 h t Type: flow-through test lytical monitoring: yes hod: OECD Test Guideline 203 P: no
Toxicity to daphnia and other aquatic invertebrates	Enc Exp Tes Ana Met	i0 (Daphnia magna (Water flea)): > 10.000 mg/l l point: Immobilization osure time: 24 h t Type: static test lytical monitoring: no hod: OECD Test Guideline 202 P: no
Toxicity to algae/aquatic plants	Exp Tes Ana	I0 (Scenedesmus quadricauda (Green algae)): 1.800 mg/l osure time: 7 d t Type: static test lytical monitoring: no P: no
Toxicity to microorganisms	Exp Tes Ana Met	eudomonas putida): 1.050 mg/l osure time: 16 h t Type: static test lytical monitoring: no hod: DIN 38 412 Part 8 P: no
Ecotoxicology Assessment		
Toxicity Data on Soil	Not	expected to adsorb on soil.

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Other organisms relevant to : No data available the environment

## Elution Buffer (d-EB)

No data available

# 12.2 Persistence and degradability Wash Buffer I (d-WB I m/I)

#### 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 Treat- ment	:	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		

#### **Components:**

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 III

No data available Lysis/Binding Buffer (CBLB)

#### Components:

guanidinium thiocyanate:

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Biodegradability	Concentration Result: Inher Biodegradation Exposure tim	tivated sludge, non-adapted n: 343 mg/l ently biodegradable. on: 46 %
Polidocanol:		
Biodegradability	Concentration Result: Read Biodegradation Exposure tim	tivated sludge n: 30 mg/l illy biodegradable. on: 74 %
Proteinase K		
No data available <b>Tissue Lysis/Proteina</b>	se K Buffer II	
No data available <b>MGPs</b>		
Components:		
<b>propan-2-ol:</b> Biodegradability		tivated sludge ily biodegradable. on: 53%
Elution Buffer (d-EB)		
No data available		
12.3 Bioaccumulative pote Wash Buffer I (d-WB I		
Components:		
guanidinium chloride: Partition coefficient: n- octanol/water	: log Pow: < -1 pH: 7,4	,7 (20 °C) CD Test Guideline 107
ethanol:		

50 / 70

:

Remarks: Due to the distribution coefficient n-octanol/water,

accumulation in organisms is not expected.

Bioaccumulation

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Partition coefficient: n- octanol/water		5 (24 °C) CD Test Guideline 107 rmation available.
Wash Buffer II		
Components:		
ethanol:		
Bioaccumulation		e to the distribution coefficient n-octanol/wate i in organisms is not expected.
Partition coefficient: n- octanol/water	: log Pow: -0,3 pH: 7,4 Method: OEC	5 (24 °C) CD Test Guideline 107

GLP: No information available.

## Wash Buffer III

No data available Lysis/Binding Buffer (CBLB)

#### 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

#### **Polidocanol:**

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

## Proteinase K

#### Components:

Proteinase, Tritirachium album serine:			
Partition coefficient: n- octanol/water	:	Remarks: No data available	

## Tissue Lysis/Proteinase K Buffer II

No data available

## MGPs

#### Components:

propan-2-ol: Bioaccumulation

: Remarks: Due to the distribution coefficient n-octanol/water,



accumulation in organisms is not expected.

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

## Elution Buffer (d-EB)

No data available

12.4 Mobility in soil Wash Buffer I (d-WB I m/l)

No data available

## Wash Buffer II

No data available Wash Buffer III

#### No data available Lysis/Binding Buffer (CBLB)

No data available

## Proteinase K

No data available Tissue Lysis/Proteinase K Buffer II

No data available

## MGPs

No data available *Elution Buffer (d-EB)* 

No data available

12.5 Results of PBT and vPvB assessment

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

Not relevant

Wash Buffer II

#### Not relevant Wash Buffer III

Not relevant Lysis/Binding Buffer (CBLB)

Not relevant Proteinase K

#### Not relevant Tissue Lysis/Proteinase K Buffer II

Not relevant

## MGPs

Not relevant Elution Buffer (d-EB)

Not relevant

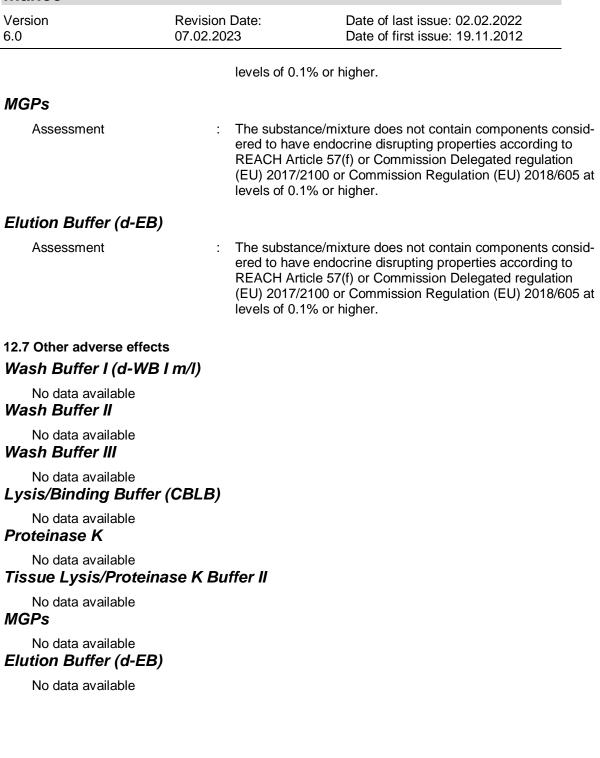
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
MagNA Pure LC Total Nucleic Acid Isolation Kit - High Perfor-
mance

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#### **12.6 Endocrine disrupting properties**

Product:	
Assessment :	The substance/mixture does not contain components consid- ered 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)	
Product:	
Assessment :	The substance/mixture does not contain components consid- ered 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	
Assessment :	The substance/mixture does not contain components consid- ered 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 consid- ered 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 (CBLB)	
Assessment :	The substance/mixture does not contain components consid- ered 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	
Assessment :	The substance/mixture does not contain components consid- ered 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.
Tissue Lysis/Proteinase K Bu	iffer II
Assessment :	The substance/mixture does not contain components consid-

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## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product

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. Send to a licensed waste management company.

SAFETY DATA SHEET	<
according to Regulation (EC) No. 1907/2006	
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mance	

Version Revision 6.0 07.02.20			Date of last issue: 02.02.2022 Date of first issue: 19.11.2012
		Can be dis local regul	posed as waste water, when in compliance with ations.
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
ΙΑΤΑ	:	UN 3316
14.2 UN proper shipping name		
ADR	:	CHEMICAL KIT
RID	:	CHEMICAL KIT
IMDG	:	CHEMICAL KIT

IATA : Cł	hemical kit
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## 14.3 Transport hazard class(es)

			Class	Subsidiary risks
	ADR	:	9	
	RID	:	9	
	IMDG	:	9	
	ΙΑΤΑ	:	9	
14.4	Packing group			
	ADR Packing group Classification Code Labels Tunnel restriction code	:	II M11 9 (E)	
	RID Packing group Classification Code Hazard Identification Number Labels	:	II M11 90 9	
	IMDG Packing group Labels EmS Code	:	ll 9 F-A, S-P	
	IATA (Cargo)			

#### IATA (Cargo)

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Packing instruction aircraft) Packing instruction Packing group	(LQ) :	960 Y960 II	
Labels	:	Miscellaneous	
IATA (Passenger) Packing instruction ger aircraft)		960	
Packing instruction Packing group Labels	· /	Y960 II Miscellaneous	
14.5 Environmental ha	zards		
<b>ADR</b> Environmentally ha	zardous :	no	
<b>RID</b> Environmentally ha	zardous :	no	
IMDG Marine pollutant	:	no	
14.6 Special precautio	ns 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 mix-ture

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.			
dan gerete et botanoeen			

Water hazard class (Germa- : WGK 2 obviously hazardous to water ny)

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

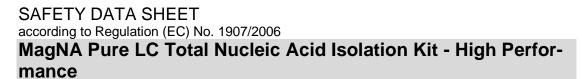
: Conditions of restriction for the following entries should be considered:

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mixtures and	articles (Annex X	VII	)			Number on list 3
	ndidate List of Sub Authorisation (Artic		ances of Very High 59).	I	:	Not applicable
Regulation (E plete the ozo	,	or	substances that d	le-	:	Not applicable
Regulation (E tants (recast)	,	pe	rsistent organic pol	llu-	:	Not applicable
	Council concerni		he European Parlia the export and imp		:	Not applicable
REACH - List (Annex XIV)	t of substances su	bje	ect to authorisation		:	Not applicable
The compon AIIC	ents of this prod	luc :	t are reported in t On the inventory,			wing inventories: npliance with the inventory
DSL		:	All components of	f this	pro	duct are on the Canadian DSL
NZIoC		:	On the inventory,	or ir	o cor	npliance with the inventory
ENCS		:	On the inventory,	or in	o cor	npliance with the inventory
ISHL		:	On the inventory,	or in	l cor	npliance with the inventory
KECI		:	On the inventory,	or in	l cor	npliance with the inventory
PICCS		:	On the inventory,	or in	l cor	npliance with the inventory
IECSC		:	On the inventory,	or in	o cor	npliance with the inventory
TCSI		:	On the inventory,	or in	o cor	npliance with the inventory
TSCA		:	All substances list	ted a	is ad	ctive on the TSCA inventory
TECI		:	On the inventory,	or in	o cor	npliance with the inventory
Volatile orgar	nic compounds	:	emissions (integra	ated	pollu	4 November 2010 on industrial ution prevention and control) ds (VOC) content: 28,4 %

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



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Hazard pictograms		!
Signal word	: Warning	
Hazard statements	H302 Harmful H315 Causes	ble liquid and vapour. if swallowed. skin irritation. serious eye irritation.
Precautionary statemer	P210 Keep aw flames and othe P264 Wash sk P280 Wear pr	vay from heat, hot surfaces, sparks, open r ignition sources. No smoking. kin thoroughly after handling. otective gloves/ protective clothing/ eye protec- tion/ hearing protection.
	ately all contami P337 + P313 attention. P370 + P378	P353 IF ON SKIN (or hair): Take off immedi- nated clothing. Rinse skin with water. If eye irritation persists: Get medical advice/ In case of fire: Use dry sand, dry chemical or foam to extinguish.

Hazardous components which must be listed on the label:

50-01-1

guanidinium chloride

## Wash Buffer II

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the fol- 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 deplete 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

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	REACH - List of substa (Annex XIV)	nces subje	ct to authorisation	n : Not applicable
	The components of th	nis product	are reported in	the following inventories:
	AIIC	:	On the inventory,	or in compliance with the inventory
	DSL	:	All components c	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 lis	sted as active on the TSCA inventory
	TECI	:	On the inventory,	or in compliance with the inventory
	Volatile organic compo		emissions (integr	5/EU of 24 November 2010 on industrial ated pollution prevention and control) compounds (VOC) content: 36,48 %

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

Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	<ul><li>H226 Flammable liquid and vapour.</li><li>H319 Causes serious eye irritation.</li></ul>
Precautionary statements	:	<ul> <li>Prevention:</li> <li>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.</li> <li>Response:</li> </ul>

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	ately all conta	+ P353 IF ON SKIN (or hair): Take off immedi- aminated clothing. Rinse skin with water. If eye irritation persists: Get medical advice/
		In case of fire: Use dry sand, dry chemical or ant foam to extinguish.
	Storage:	
	P403 + P235	Store in a well-ventilated place. Keep cool.

## Wash Buffer III

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures 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 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

#### 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	:	Not in compliance with the inventory
ISHL	:	Not 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

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TCSI	: On the inventor	y, or in compliance with the inventory			
TSCA	: All substances	listed as active on the TSCA inventory			
TECI	: On the inventor	y, or in compliance with the inventory			
Volatile organic compounds	emissions (integ	75/EU of 24 November 2010 on industrial grated pollution prevention and control) compounds (VOC) content: 0,1 %			

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

Not a hazardous substance or mixture.

## Lysis/Binding Buffer (CBLB)

Lysis/Dilluling Duller (C	JDLD)				
REACH - Restrictions on the the market and use of certain mixtures and articles (Annex 2)	dangerous substances,	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 3		
REACH - Candidate List of Su Concern for Authorisation (Art	, ,	:	Not applicable		
Regulation (EC) No 1005/200 plete the ozone layer	:	Not applicable			
Regulation (EU) 2019/1021 on persistent organic pollu- : Not applicable tants (recast)					
Regulation (EC) No 649/2012 of the European Parlia- : Not applicable ment and the Council concerning the export and import of dangerous chemicals					
REACH - List of substances subject to authorisation : Not applicable (Annex XIV)					
The components of this pro	duct are reported in the fo	مالم	wing inventories:		
AIIC	-		mpliance with the inventory		
DSL	: All components of this	pro	duct are on the Canadian DSL		
NZIoC	ZIoC : Not in compliance with the inventory				
ENCS	ENCS : Not in compliance with the inventory				
ISHL	ISHL : Not in compliance with the inventory				
KECI : Not in compliance with the inventory					

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PICCS	:	On the	e inventory, or in compliance with the inventory
IECSC	:	On the	e inventory, or in compliance with the inventory
TCSI	:	On the	e inventory, or in compliance with the inventory
TSCA	:	All sul	ostances listed as active on the TSCA inventory
TECI	:	Not in	compliance with the inventory
Volatile organic compo	unds :	emiss	ive 2010/75/EU of 24 November 2010 on industrial ions (integrated pollution prevention and control) le organic compounds (VOC) content: 15 %
Labelling (REGULATI Hazard pictograms	ON (EC) ∣ :	No 1272	2/2008)
Signal word	:	Dange	r
Hazard statements	:	H302 H315 H318 H412	Harmful if swallowed. Causes skin irritation. Causes serious eye damage. Harmful to aquatic life with long lasting effects.
Supplemental Hazard Statements	:	EUH03 gas.	2 Contact with acids liberates very to

Precautionary statements : Prevention:

- P264 Wash skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/ eye protection/ face protection.

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#### **Response:**

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.

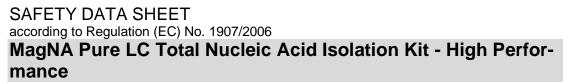
#### **Disposal:**

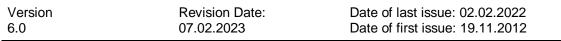
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label: 593-84-0 guanidinium thiocyanate

Polidocanol

- C C
- 9002-92-0





## Proteinase K

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures 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 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.
		Proteinase, Tritirachium album serine
NZIoC	:	On the inventory, or in compliance with the inventory
ENCS	:	Not in compliance with the inventory
ISHL	:	On the inventory, or in compliance with the inventory
KECI	:	Not in compliance with the inventory
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

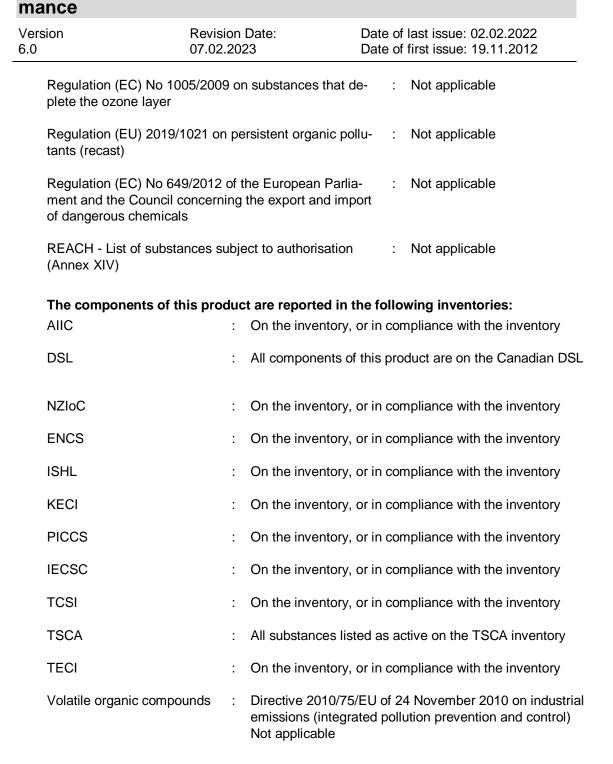
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TSCA	: Product c	ontains substance(s) not listed on TSCA inventor
TECI	: Not in cor	npliance with the inventory
Volatile organic com	•	2010/75/EU of 24 November 2010 on industrial (integrated pollution prevention and control) able
Labelling (REGULA	ATION (EC) No 1272/200	08)
Hazard pictograms		
Signal word	: Danger	•
Hazard statements	H317 Ma H319 Ca H334 Ma difficulties	uses skin irritation. ay cause an allergic skin reaction. uses serious eye irritation. ay cause allergy or asthma symptoms or breathing if inhaled. ay cause respiratory irritation.
Precautionary stater	ments : <b>Preventio</b>	1:
,	P261 Av P264 Wa P280 We	oid breathing dust. ash skin thoroughly after handling. ear protective gloves/ eye protection/ face protect ear respiratory protection.
	Response	:
		40 + P312 IF INHALED: Remove person to free

## Tissue Lysis/Proteinase K Buffer II

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

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



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

Not a hazardous substance or mixture.

## MGPs

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

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#### 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 emissions (integrated pollution prevention and control) Not applicable		

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Labelling (REGULATION (E Hazard pictograms	EC)	No 1272/2008)
Signal word	:	Danger
Hazard statements	:	<ul><li>H225 Highly flammable liquid and vapour.</li><li>H319 Causes serious eye irritation.</li><li>H336 May cause drowsiness or dizziness.</li></ul>
Precautionary statements	:	<ul> <li>Prevention:</li> <li>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P233 Keep container tightly closed.</li> <li>P261 Avoid breathing mist or vapours.</li> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.</li> </ul>
		Response: P303 + P361 + P353 IF ON SKIN (or hair): Take off immedi- ately 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:

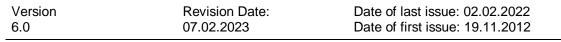
67-63-0

propan-2-ol

## Elution Buffer (d-EB)

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures 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 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

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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	:	On the inventory, or 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		

#### 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**

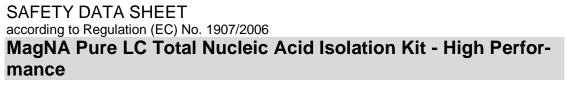
#### Full text of H-Statements

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.

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H319 H332 H334	: Harmful if inl : May cause a	allergy or asthma symptoms or breathing difficul-
H335 H336 H412	: May cause c	d. espiratory irritation. Irowsiness or dizziness. quatic life with long lasting effects.
Full text of other abb	reviations	
Acute Tox. Aquatic Chronic Eye Dam. Eye Irrit. Flam. Liq. Resp. Sens. Skin Corr. Skin Irrit. Skin Sens.	<ul> <li>Acute toxicity</li> <li>Long-term (of</li> <li>Serious eye</li> <li>Eye irritation</li> <li>Flammable I</li> <li>Respiratory</li> <li>Skin corrosion</li> <li>Skin sensitis</li> </ul>	chronic) aquatic hazard damage iquids sensitisation on
STOT SE		et organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways: ADR - Agreement concerning the International Carriage of Dangerous Goods by Road: AIIC - 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



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#### Further information

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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