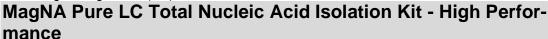
according to Regulation (EC) No. 1907/2006



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

1.1 Product identifier

Trade name : MagNA Pure LC Total Nucleic Acid Isolation Kit - High Per-

formance

Product code : 05323738001

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

Recommended restrictions

on use

For professional users only.

1.3 Details of the supplier of the safety data sheet

Company : Roche Diagnostics Deutschland GmbH

.

Sandhoferstrasse 116 68305 Mannheim Deutschland

Telephone : +496217590
Telefax : +496217592890
Responsible Department : +49(0)621-759-4223
E-mail address : info.dia-sds@roche.com

1.4 Emergency telephone number

In case of emergencies: Central Works Security +49(0)621-759-2203

Roche Diagnostics GmbH

Centre for detoxification: : Mainz +49(0)6131-19240

Munich +49(0)89-19240

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

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

## 2.2 Label elements

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

Hazard pictograms :





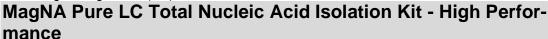




Roch

Signal word : Danger

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Hazard statements : H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.H315 Causes skin irritation.

H317 May cause an allergic skin reaction.H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

H335 May cause respiratory irritation.H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

Supplemental Hazard

Statements

EUH032 gas. Contact with acids liberates very toxic

0

Precautionary statements : Prevention:

P210 Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking.

P261 Avoid breathing dust.

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection/ hearing protection.

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh

air and keep comfortable for breathing. Call a POISON

CENTER/ doctor if you feel unwell.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

POISON CENTER/ doctor.

P342 + P311 If experiencing respiratory symptoms: Call a

POISON CENTER/ doctor.

P370 + P378 In case of fire: Use dry sand, dry chemical or

alcohol-resistant foam to extinguish.

#### 2.3 Other hazards

Ecological information: 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/I)

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

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

Acute toxicity, Category 4 H302: Harmful if swallowed.

according to Regulation (EC) No. 1907/2006



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Skin irritation, Category 2 H315: Causes skin irritation.

Eye irritation, Category 2 H319: Causes serious eye irritation.

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 estimate  Acute oral toxicity: 475 mg/kg Acute inhalation toxicity (dust/mist): 3,2 mg/l	>= 30,0 - < 50,0
ethanol	64-17-5 200-578-6 603-002-00-5 01-2119457610-43	Flam. 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.

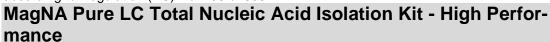
Components

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

according to Regulation (EC) No. 1907/2006



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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-

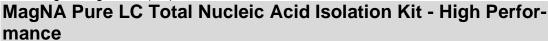
fects.

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
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  Acute toxicity estimate  Acute oral toxicity: 593 mg/kg	>= 30,0 - < 50,0
Polidocanol	9002-92-0 500-002-6	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Chronic 3; H412 Acute toxicity estimate  Acute oral toxicity: 1.000 mg/kg	>= 10,0 - < 20,0

For explanation of abbreviations see section 16.

according to Regulation (EC) No. 1907/2006



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Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2 H315: Causes skin irritation.

Eye irritation, Category 2 H319: Causes serious eye irritation.

H334: May cause allergy or asthma symptoms or Respiratory sensitisation, Category 1

breathing difficulties if inhaled.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

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

H335: May cause respiratory irritation.

Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% 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.

H319: Causes serious eye irritation. Eye irritation, Category 2

Specific target organ toxicity - single ex-

posure, Category 3, Central nervous

system

H336: May cause drowsiness or dizziness.

according to Regulation (EC) No. 1907/2006



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# 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)	

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.

If 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.

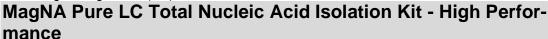
Continue rinsing eyes during transport to hospital.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

according to Regulation (EC) No. 1907/2006



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If swallowed : Clean mouth with water and drink afterwards plenty of water.

Keep respiratory tract clear. Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : The first aid procedure should be established in consultation

with the doctor responsible for industrial medicine.

**SECTION 5: Firefighting measures** 

5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion prod: :

ucts

In case of fire hazardous decomposition products may be

produced such as: Carbon oxides

Nitrogen oxides (NOx)

Sulphur oxides

Hydrogen cyanide (hydrocyanic acid)

5.3 Advice for firefighters

Special protective equipment :

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

For safety reasons in case of fire, cans should be stored sepa-

rately in closed containments.

Use a water spray to cool fully closed containers.

according to Regulation (EC) No. 1907/2006



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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 : Avoid formation of respirable particles.

Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Take precautionary measures against static discharges.
Provide sufficient air exchange and/or exhaust in work rooms.
Open drum carefully as content may be under pressure.
Dispose of rinse water in accordance with local and national

regulations.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

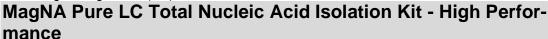
used.

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.

according to Regulation (EC) No. 1907/2006



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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 storage, including any incompatibilities

Requirements for storage areas and containers

No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the techno-

logical safety standards.

Further information on stor-

age conditions

See label, package insert or internal guidelines

Storage class (TRGS 510) : 13

Further information on stor-

age stability

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	Control parameters	Basis	
		of exposure)			
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 valu	ies, there is no risk o	of harming the unborn child		

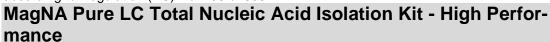
## Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef-	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

according to Regulation (EC) No. 1907/2006



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# 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 valu	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-	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**

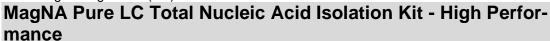
Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
guanidinium thio- cyanate	593-84-0	IOEL	100 microgram per cubic meter	Category 1 (Roche Group Directive K1, Annex 3): OEL = 100 µg/m3

# 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 Industrial Hygiene Committee (RIHC)

according to Regulation (EC) No. 1907/2006



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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 effects	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-	Value
			fects	
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

according to Regulation (EC) No. 1907/2006



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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
Break through time : > 480 min
Glove thickness : > 0,4 mm

Remarks : The selected protective gloves have to satisfy the specifica-

tions 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

approved filter. Effective dust mask

according to Regulation (EC) No. 1907/2006



Roche

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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

pH : 6,6 (25 °C)

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Solubility(ies)

Water solubility : completely miscible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Vapour pressure : 43 hPa

Relative density : No data available

Density : 1,057 g/cm3

Relative vapour density : No data available

according to Regulation (EC) No. 1907/2006

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Particle characteristics

Particle Size Distribution : Not applicable

Wash Buffer II

Physical state : liquid

Colour : colourless

Odour : alcohol-like

Odour Threshold : No data available

Melting point/range : No data available

Boiling point/boiling range : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

24 °C

Auto-ignition temperature : No data available

Decomposition temperature : No data available

pH : 4,0

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Solubility(ies)

Water solubility : completely miscible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Vapour pressure : 43 hPa

Relative density : No data available

Density : 0,95 g/cm3 (25 °C)

Relative vapour density : No data available

according to Regulation (EC) No. 1907/2006

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Particle characteristics

Particle Size Distribution : Not applicable

Wash Buffer III

Physical state : liquid

Colour : colourless

Odour : none

Odour Threshold : No data available

Melting point/range : No data available

Boiling point/boiling range : No data available

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

pH : 4,0

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Solubility(ies)

Water solubility : completely miscible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Vapour pressure : No data available

Relative density : No data available

Relative vapour density : No data available

Particle characteristics



according to Regulation (EC) No. 1907/2006

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Particle Size Distribution : Not applicable

Lysis/Binding Buffer (CBLB)

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 : 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, dynamic : No data available

Viscosity, kinematic : No data available

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

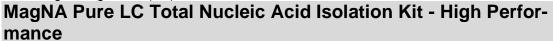
Vapour pressure : No data available

Relative density : No data available

Relative vapour density : No data available

Particle characteristics

according to Regulation (EC) No. 1907/2006



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Particle Size Distribution : Not applicable

Proteinase K

Physical state : solid, (lyophilised)

Colour : white

Odour : very faint

Odour Threshold : Not applicable

Melting point/range : No data available

Boiling point/boiling range : No data available

Flammability : Sustains combustion

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

does not flash

Auto-ignition temperature : No data available

Decomposition temperature : Decomposes on heating.

pH : 6,5

(as aqueous solution)

Viscosity

Viscosity, dynamic : Not applicable

Viscosity, kinematic : Not applicable

Solubility(ies)

Water solubility : soluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

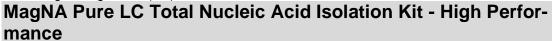
Vapour pressure : No data available

Relative density : No data available

Bulk density : ca. 35 kg/m3

Relative vapour density : Not applicable

according to Regulation (EC) No. 1907/2006



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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

pH : 6,6 - 6,9

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

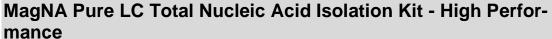
No data available

Vapour pressure : No data available

Relative density : No data available

Density : 1,155 - 1,173 g/cm3

according to Regulation (EC) No. 1907/2006



Roche

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Relative vapour density : No data available

Particle characteristics

Particle Size Distribution : Not applicable

**MGPs** 

Physical state : liquid

Colour : black, brown

Odour : alcohol-like

Odour Threshold : No data available

Melting point/range : -89 °C

Boiling point/boiling range : 82 °C

Upper explosion limit / Upper

flammability limit

13,4 %(V)

Lower explosion limit / Lower

flammability limit

2 %(V)

12 °C

Auto-ignition temperature : 425 °C

Decomposition temperature : No data available

pH : No data available

Viscosity

Viscosity, dynamic : 2,2 mPa.s (20 °C)

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 : 42 hPa (20 °C)

Relative density : No data available

Density : 0,78 g/cm3

Relative vapour density : No data available

according to Regulation (EC) No. 1907/2006

# MagNA Pure LC Total Nucleic Acid Isolation Kit - High Performance

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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

pH : 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

according to Regulation (EC) No. 1907/2006



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Particle characteristics

Particle Size Distribution : Not applicable

#### 9.2 Other information

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

Explosives : Not explosive

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

Flammability (liquids) : Sustains combustion

Self-ignition : 425 °C

Evaporation rate : No data available

Miscibility with water : completely miscible

Wash Buffer II

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.

according to Regulation (EC) No. 1907/2006



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Self-ignition : No data available

Evaporation rate : No data available

Miscibility with water : completely miscible

Proteinase K

Explosives : Not explosive

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

Flammability (liquids) : Sustains combustion

Self-ignition : No data available

Evaporation rate : No data available

Miscibility with water : No data available

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.

according to Regulation (EC) No. 1907/2006



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Flammability (liquids) : Does not sustain combustion.

Self-ignition : No data available

Evaporation rate : No data available

Miscibility with water : completely miscible

# **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)



according to Regulation (EC) No. 1907/2006

# MagNA Pure LC Total Nucleic Acid Isolation Kit - High Performance

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**Acute toxicity** 

Harmful if swallowed.

**Components:** 

guanidinium chloride:

Acute oral toxicity : LD50 Oral (Rat, female): 475 mg/kg

Method: OECD Test Guideline 401

GLP: yes

Acute toxicity estimate: 475 mg/kg

Method: Calculation method

Acute inhalation toxicity : LC50 (Rat, female): 3,2 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

GLP: yes

LC50 (Rat, male and female): 5,32 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

GLP: yes

LC50 (Rat, male): 7,7 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

GLP: yes

Acute toxicity estimate: 3,2 mg/l Test atmosphere: dust/mist Method: Calculation method

Acute dermal toxicity : LD50 Dermal (Rabbit, male and female): > 2.000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: No mortality observed at this dose.

ethanol:

Acute oral toxicity : LD50 (Rat, male and female): 10.470 mg/kg

Method: OECD Test Guideline 401

GLP: no

Acute inhalation toxicity : LC50 (Rat, male and female): 124,7 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Method: OECD Test Guideline 403

GLP: no

Acute dermal toxicity : (Rabbit): 17.100 mg/kg

according to Regulation (EC) No. 1907/2006



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GLP: No information available.

Remarks: Based on data from similar materials

#### Skin corrosion/irritation

Causes skin irritation.

## **Components:**

## guanidinium chloride:

Species : Rabbit Exposure time : 24 h

Result : Irritating to skin.

GLP : yes

ethanol:

Species : Rabbit Exposure time : 24 h

Method : OECD Test Guideline 404

Result : No skin irritation

GLP : yes

# Serious eye damage/eye irritation

Causes serious eye irritation.

### **Components:**

## guanidinium chloride:

Species : Rabbit

Method : OECD Test Guideline 405

Result : Irritating to eyes.

GLP : yes

ethanol:

Species : Rabbit

Method : OECD Test Guideline 405

Result : Irritating to eyes.

GLP : No information available.

# Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

## Respiratory sensitisation

Not classified based on available information.

## **Components:**

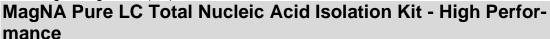
## guanidinium chloride:

Test Type : Buehler Test Species : Guinea pig

Assessment : Does not cause skin sensitisation.

Method : OECD Test Guideline 406

according to Regulation (EC) No. 1907/2006



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GLP : yes

ethanol:

Test Type : Maximisation Test

Species : Guinea pig

Assessment : Does not cause skin sensitisation.

Method : OECD Test Guideline 406

Result : Did not cause sensitisation on laboratory animals.

GLP : no

Remarks : Based on data from similar materials

Germ cell mutagenicity

Not classified based on available information.

**Components:** 

guanidinium chloride:

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes

Test Type: Chromosome aberration test in vitro Test system: Chinese hamster fibroblasts Method: OECD Test Guideline 473

Result: negative

GLP: no

ethanol:

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: No information available.

Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: No information available.

Genotoxicity in vivo : Test Type: dominant lethal test

Species: Mouse (male) Application Route: Oral

Dose: 10 or 40% ethanol in water Method: OECD Test Guideline 478

Result: negative

according to Regulation (EC) No. 1907/2006



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GLP: No information available.

## Carcinogenicity

Not classified based on available information.

#### **Components:**

ethanol:

Species : Mouse, male and female
Application Route : inhalation (vapour)
Exposure time : 18 month(s)

Control Group : yes

Frequency of Treatment : 19 hours/day

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** 

Developmental Toxicity: NOAEL: 5.200 mg/kg body weight

GLP: No information available.

## STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

Not classified based on available information.





according to Regulation (EC) No. 1907/2006

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## Repeated dose toxicity

#### **Components:**

### guanidinium chloride:

Species : Rat, male and female

NOAEL : 100 mg/kg Application Route : Oral Exposure time : 90 d

Dose : 25, 100, 300 mg/kg bw/day Method : OECD Test Guideline 408

GLP : yes

ethanol:

Species : Rat, male and female

LOAEL : 3156 mg/kg

Application Route : Oral Exposure time : 14 Weeks

Dose : 0, 5, 10, 20 mg/Kg

Method : OECD Test Guideline 408

GLP : yes

## **Aspiration toxicity**

Not classified based on available information.

## Wash Buffer II

# **Acute toxicity**

Not classified based on available information.

### **Components:**

ethanol:

Acute oral toxicity : LD50 (Rat, male and female): 10.470 mg/kg

Method: OECD Test Guideline 401

GLP: no

Acute inhalation toxicity : LC50 (Rat, male and female): 124,7 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Method: OECD Test Guideline 403

GLP: no

Acute dermal toxicity : (Rabbit): 17.100 mg/kg

GLP: No information available.

Remarks: Based on data from similar materials

## Skin corrosion/irritation

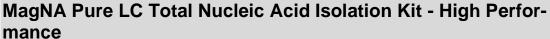
Not classified based on available information.

## **Components:**

#### ethanol:



according to Regulation (EC) No. 1907/2006



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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 : Maximisation Test

Species : Guinea pig

Assessment : Does not cause skin sensitisation.

Method : OECD Test Guideline 406

Result : Did not cause sensitisation on laboratory animals.

GLP : no

Remarks : Based on data from similar materials

# Germ cell mutagenicity

Not classified based on available information.

#### **Components:**

#### ethanol:

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: No information available.

Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

according to Regulation (EC) No. 1907/2006

# MagNA Pure LC Total Nucleic Acid Isolation Kit - High Performance

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Result: negative

GLP: No information available.

Genotoxicity in vivo : Test Type: dominant lethal test

Species: Mouse (male) Application Route: Oral

Dose: 10 or 40% ethanol in water Method: OECD Test Guideline 478

Result: negative

GLP: No information available.

## Carcinogenicity

Not classified based on available information.

### **Components:**

#### ethanol:

Species : Mouse, male and female
Application Route : inhalation (vapour)
Exposure time : 18 month(s)

Control Group : yes

Frequency of Treatment : 19 hours/day

Method : OECD Test Guideline 453

Result : negative

GLP : No information available.

Remarks : Based on data from similar materials

# Reproductive toxicity

Not classified based on available information.

# **Components:**

# ethanol:

Effects on fertility : Test Type: Two-generation study

Species: Mouse, male and female

Application Route: Oral

General Toxicity - Parent: NOAEL: 20.700 mg/kg body weight

Method: OECD Test Guideline 416 Result: No effects on fertility GLP: No information available.

Effects on foetal develop-

ment

Species: Rat, female Strain: Sprague-Dawley

Application Route: Ingestion

Duration of Single Treatment: 6 Weeks

Developmental Toxicity: NOAEL: 5.200 mg/kg body weight

GLP: No information available.

# STOT - single exposure

Not classified based on available information.

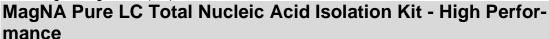
#### STOT - repeated exposure

Not classified based on available information.





according to Regulation (EC) No. 1907/2006



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## Repeated dose toxicity

#### **Components:**

#### ethanol:

Species : Rat, male and female

LOAEL : 3156 mg/kg
Application Route : Oral
Exposure time : 14 Weeks

Dose : 0, 5, 10, 20 mg/Kg

Method : OECD Test Guideline 408

GLP : yes

## **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)



according to Regulation (EC) No. 1907/2006

# MagNA Pure LC Total Nucleic Acid Isolation Kit - High Performance

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**Acute toxicity** 

Harmful if swallowed.

**Components:** 

guanidinium thiocyanate:

Acute oral toxicity : LD50 Oral (Rat, female): 593 mg/kg

Method: OECD Test Guideline 401

Symptoms: Vomiting

GLP: yes

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

Acute inhalation toxicity : Assessment: Corrosive to the respiratory tract., The compo-

nent/mixture is moderately toxic after short term inhalation.

Acute dermal toxicity : Assessment: The component/mixture is moderately toxic after

single contact with skin.

Polidocanol:

Acute oral toxicity : LD50 Oral (Rat): 1.000 mg/kg

Method: OECD Test Guideline 423

GLP: yes

Acute toxicity estimate: 1.000 mg/kg

Method: Calculation method

Acute dermal toxicity : LD50 Dermal (Rat, male and female): > 2.000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

Skin corrosion/irritation

Causes skin irritation.

**Components:** 

guanidinium thiocyanate:

Species : Rabbit Exposure time : 4 h

Method : OECD Test Guideline 404

Result : Corrosive after 1 to 4 hours of exposure

GLP : yes

Polidocanol:

Species : Rabbit Exposure time : 4 h

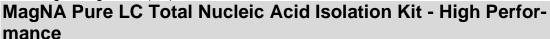
Method : OECD Test Guideline 404

Result : No skin irritation

GLP : yes

32 / 70

according to Regulation (EC) No. 1907/2006



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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** 

## 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** 

## 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

according to Regulation (EC) No. 1907/2006

# MagNA Pure LC Total Nucleic Acid Isolation Kit - High Performance

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Polidocanol:

Genotoxicity in vitro : Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative

Test Type: Chromosome aberration test in vitro

Test system: Chinese hamster cells

Metabolic activation: with and without metabolic activation

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells

Result: negative

Genotoxicity in vivo : Test Type: in vivo assay

Species: Mouse (male)

Strain: B6C3F1

Cell type: Bone marrow

Application Route: Intraperitoneal injection

Exposure time: 72 h Dose: 125 mg/kg Result: negative

### Carcinogenicity

Not classified based on available information.

## Reproductive toxicity

Not classified based on available information.

## **Components:**

## guanidinium thiocyanate:

Effects on fertility : Species: Rat, female

Application Route: Oral

Dose: 25 GLP: no

Remarks: No significant adverse effects were reported

Based on data from similar materials

Effects on foetal 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-

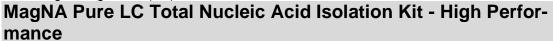
ment

Test Type: Two-generation study

Species: Rat, female Application Route: Oral

Developmental Toxicity: NOAEL: 50 mg/kg bw/day

according to Regulation (EC) No. 1907/2006



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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:

Species : Rat, male and female

NOAEL : 100 mg/kg

Application Route : Oral Exposure time : 90 d Number of exposures : daily

Dose : 25, 100, 300 mg/kg bw/day Method : OECD Test Guideline 408

GLP : yes

#### 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.

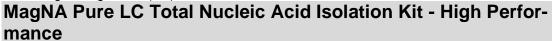
## **Components:**

## Proteinase, Tritirachium album serine:

Result : Irritating to eyes.

Remarks : May cause irreversible eye damage.

according to Regulation (EC) No. 1907/2006



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## Respiratory or skin sensitisation

#### Skin sensitisation

May cause an allergic skin reaction.

## Respiratory sensitisation

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

#### Components:

#### Proteinase, Tritirachium album serine:

Assessment : May cause sensitisation by skin contact.

Remarks Causes sensitisation.

Assessment : May cause sensitisation by inhalation.

### Germ cell mutagenicity

Not classified based on available information.

## Carcinogenicity

Not classified based on available information.

## Reproductive toxicity

Not classified based on available information.

#### STOT - single exposure

May cause respiratory irritation.

## **Components:**

# Proteinase, Tritirachium album serine:

Assessment : May cause respiratory irritation.

## STOT - repeated exposure

Not classified based on available information.

## **Components:**

### Proteinase, Tritirachium album serine:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

#### **Aspiration toxicity**

Not classified based on available information.

#### **Components:**

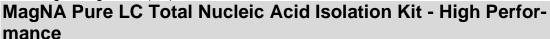
## Proteinase, Tritirachium album serine:

No data available

# Tissue Lysis/Proteinase K Buffer II



according to Regulation (EC) No. 1907/2006



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## **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.

## **MGPs**

#### **Acute toxicity**

Not classified based on available information.

## **Components:**

## propan-2-ol:

Acute oral toxicity : LD50 (Rat): 5.840 mg/kg

Method: OECD Test Guideline 401

GLP: no

Acute inhalation toxicity : LC50 (Rat, male and female): > 10000 ppm

Exposure time: 6 h
Test atmosphere: vapour

Method: OECD Test Guideline 403

GLP: yes

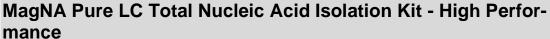
Acute dermal toxicity : LD50 (Rabbit): 13.900 mg/kg

Method: OECD Test Guideline 402

GLP: no



according to Regulation (EC) No. 1907/2006



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## Skin corrosion/irritation

Not classified based on available information.

#### **Components:**

## propan-2-ol:

Species : Rabbit Exposure time : 4 h

Result : No skin irritation

GLP : no

## Serious eye damage/eye irritation

Causes serious eye irritation.

#### **Components:**

#### propan-2-ol:

Species : Rabbit

Method : OECD Test Guideline 405

Result : Irritating to eyes.

GLP : no

Remarks : May cause irreversible eye damage.

## Respiratory or skin sensitisation

## Skin sensitisation

Not classified based on available information.

## Respiratory sensitisation

Not classified based on available information.

#### **Components:**

## propan-2-ol:

Test Type : Buehler Test Species : Guinea pig

Assessment : Does not cause skin sensitisation.

Method : OECD Test Guideline 406

GLP : yes

## Germ cell mutagenicity

Not classified based on available information.

#### **Components:**

#### propan-2-ol:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells

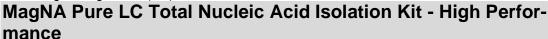
Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: yes

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Test Type: Microbial mutagenesis assay (Ames test)

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: no

Genotoxicity in vivo : Test Type: In vivo micronucleus test

Species: Mouse (male and female)

Cell type: Bone marrow

Application Route: Intraperitoneal injection

Method: OECD Test Guideline 474

Result: negative GLP: yes

## Carcinogenicity

Not classified based on available information.

## **Components:**

#### propan-2-ol:

Species : Rat, male and female Application Route : inhalation (vapour)

Exposure time : 104 weeks Frequency of Treatment : 5 days/week

Method : OECD Test Guideline 451

GLP : yes

## Reproductive toxicity

Not classified based on available information.

## **Components:**

## propan-2-ol:

Effects on fertility : Species: Rat, male and female

Application Route: Oral

General Toxicity - Parent: NOAEL: 853 mg/kg body weight

Method: OECD Test Guideline 415

GLP: yes

Effects on foetal develop-

ment

Species: Rat, male and female

**Application Route: Oral** 

Dose: 596, 1242, 1605 mg/kg bw/day Duration of Single Treatment: 6 - 16 d

General Toxicity Maternal: NOAEL: 596 mg/kg body weight Developmental Toxicity: NOAEL: 596 mg/kg body weight

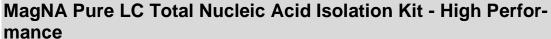
Method: OECD Test Guideline 414

GLP: yes

## STOT - single exposure

May cause drowsiness or dizziness.

according to Regulation (EC) No. 1907/2006



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## **Components:**

propan-2-ol:

Assessment : May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

**Components:** 

propan-2-ol:

Species : Rat, male and female

NOAEC : 5000
Application Route : Inhalation
Test atmosphere : vapour
Exposure time : 104 Weeks

Dose : 500, 2500, 5000 ppm parts per million

GLP : yes

**Aspiration toxicity** 

Not classified based on available information.

## Elution Buffer (d-EB)

## **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

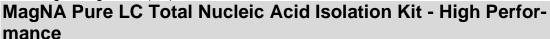
Not classified based on available information.

## STOT - single exposure

Not classified based on available information.



according to Regulation (EC) No. 1907/2006



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## STOT - repeated exposure

Not classified based on available information.

## **Aspiration toxicity**

Not classified based on available information.

#### 11.2 Information on other hazards

## **Endocrine disrupting properties**

**Product:** 

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)

## **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.

**Further information** 

**Product:** 

Remarks : Solvents may degrease the skin.

#### Wash Buffer II

## **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.

**Further information** 

**Product:** 

Remarks : Solvents may degrease the skin.

## Wash Buffer III

## **Endocrine disrupting properties**

### **Product:**





according to Regulation (EC) No. 1907/2006



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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)

#### **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.

## Proteinase K

## **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.

## Tissue Lysis/Proteinase K Buffer II

#### **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.

#### **MGPs**

## **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.

## **Further information**

#### **Product:**

according to Regulation (EC) No. 1907/2006



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Remarks : Symptoms of overexposure may be headache, dizziness,

tiredness, nausea and vomiting.

Concentrations substantially above the TLV value may cause

narcotic effects.

Solvents may degrease the skin.

## Elution Buffer (d-EB)

#### **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.

## **SECTION 12: Ecological information**

## 12.1 Toxicity

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

## **Components:**

guanidinium chloride:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 1.758 mg/l

End point: mortality Exposure time: 48 h Test Type: static test

GLP: yes

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 70,2 mg/l

End point: Immobilization Exposure time: 48 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 202 GLP: No information available.

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): 33,5

mg/l

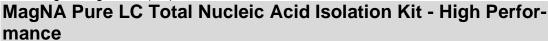
End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: yes

Analytical monitoring: yes Method: Regulation (EC) No. 440/2008, Annex, C.3

GLP: yes

EC50 (Pseudokirchneriella subcapitata (green algae)): 11,8

according to Regulation (EC) No. 1907/2006



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mg/l

Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes

Method: Regulation (EC) No. 440/2008, Annex, C.3

GLP: yes

NOEC (Pseudokirchneriella subcapitata (green algae)): 6,3

mg/l

End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: yes

Method: Regulation (EC) No. 440/2008, Annex, C.3

GLP: yes

Toxicity to microorganisms : EC10 (Pseudomonas putida): 7.125 mg/l

End point: Growth rate Exposure time: 18 h Test Type: static test Method: DIN 38 412 Part 8

GLP: yes

Toxicity to fish (Chronic tox-

icity)

NOEC: > 181 mg/l End point: mortality

Exposure time: 35 d

Species: Pimephales promelas (fathead minnow)

Test Type: flow-through test Analytical monitoring: yes

Method: OECD Test Guideline 210 GLP: No information available.

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC: 2,9 mg/l

End point: reproduction rate

Exposure time: 21 d

Species: Daphnia magna (Water flea)

Analytical monitoring: yes

Method: OECD Test Guideline 211 GLP: No information available.

**Ecotoxicology Assessment** 

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

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

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

Other organisms relevant to

the environment

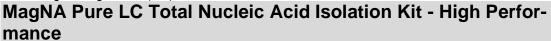
No data available

ethanol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 15.300 mg/l

End point: mortality

according to Regulation (EC) No. 1907/2006



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Exposure time: 96 h

Test Type: flow-through test Analytical monitoring: yes GLP: No information available.

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Ceriodaphnia dubia (water flea)): 5.012 mg/l

Exposure time: 48 h Test Type: static test

GLP: No information available.

Toxicity to algae/aquatic

plants

EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l

Exposure time: 5 d Analytical monitoring: no

Method: OECD Test Guideline 201 GLP: No information available.

Toxicity to microorganisms : IC50 (activated sludge): > 1.000 mg/l

End point: Growth rate Exposure time: 3 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 209 GLP: No information available.

Remarks: Based on data from similar materials

Toxicity to fish (Chronic tox-

icity)

NOEC: 250 mg/l Exposure time: 120 h

Species: Danio rerio (zebra fish) GLP: No information available.

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC: 9,6 mg/l Exposure time: 7 d

GLP: No information available.

**Ecotoxicology Assessment** 

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

Other organisms relevant to

the environment

No data available

#### Wash Buffer II

#### **Components:**

ethanol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 15.300 mg/l

End point: mortality Exposure time: 96 h

Test Type: flow-through test Analytical monitoring: yes GLP: No information available.

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Ceriodaphnia dubia (water flea)): 5.012 mg/l

Exposure time: 48 h

according to Regulation (EC) No. 1907/2006

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Test Type: static test

GLP: No information available.

Toxicity to algae/aquatic

plants

EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l

Exposure time: 5 d

Analytical monitoring: no

Method: OECD Test Guideline 201 GLP: No information available.

Toxicity to microorganisms : IC50 (activated sludge): > 1.000 mg/l

End point: Growth rate Exposure time: 3 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 209 GLP: No information available.

Remarks: Based on data from similar materials

Toxicity to fish (Chronic tox-

icity)

NOEC: 250 mg/l Exposure time: 120 h

Species: Danio rerio (zebra fish) GLP: No information available.

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC: 9,6 mg/l Exposure time: 7 d

GLP: No information available.

**Ecotoxicology Assessment** 

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

Other organisms relevant to

the environment

No data available

## Wash Buffer III

No data available

## Lysis/Binding Buffer (CBLB)

## **Components:**

#### guanidinium thiocyanate:

Toxicity to fish : LC50 (Poecilia reticulata (guppy)): 89,1 mg/l

End point: mortality Exposure time: 96 h Test Type: static test Analytical monitoring: no

Method: OECD Test Guideline 203

GLP: no

Toxicity to daphnia and other :

aquatic invertebrates

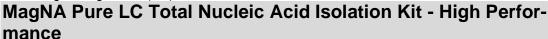
EC50 (Daphnia (water flea)): 42,4 mg/l

End point: Immobilization Exposure time: 48 h Test Type: static test Analytical monitoring: no

46 / 70



according to Regulation (EC) No. 1907/2006



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Method: OECD Test Guideline 202

GLP: no

Toxicity to algae/aquatic

plants

EC50 (Desmodesmus subspicatus (green algae)): 130 mg/l

End point: Growth rate Exposure time: 72 h Test Type: static test

GLP: No information available.

Toxicity to microorganisms : EC50 (activated sludge): > 185 mg/l

Exposure time: 28 d Test Type: static test

Method: OECD Test Guideline 302B

GLP: yes

**Ecotoxicology Assessment** 

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

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

Other organisms relevant to

the environment

No data available

Polidocanol:

Toxicity to fish : LC50 (Salmo salar (Atlantic salmon)): 1,5 mg/l

End point: mortality Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 6,46 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

ErC50 (Desmodesmus subspicatus (green algae)): 0,237 mg/l

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 microorganisms : (Photobacterium phosphoreum): 2,5 mg/l

Test Type: EC50

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC: 0,144 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

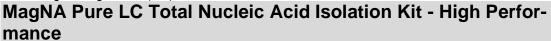
Method: QSAR

**Ecotoxicology Assessment** 

Acute aquatic toxicity : Toxic to aquatic life.

Remarks: Expert judgement

according to Regulation (EC) No. 1907/2006



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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 : LC50 (Pimephales promelas (fathead minnow)): 10.000 mg/l

End point: mortality Exposure time: 96 h

Test Type: flow-through test Analytical monitoring: yes

Method: OECD Test Guideline 203

GLP: no

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Daphnia magna (Water flea)): > 10.000 mg/l

End point: Immobilization Exposure time: 24 h Test Type: static test

Analytical monitoring: no Method: OECD Test Guideline 202

GLP: no

Toxicity to algae/aquatic

plants

: EC10 (Scenedesmus quadricauda (Green algae)): 1.800 mg/l

Exposure time: 7 d Test Type: static test Analytical monitoring: no

GLP: no

Toxicity to microorganisms : (Pseudomonas putida): 1.050 mg/l

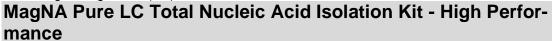
Exposure time: 16 h Test Type: static test Analytical monitoring: no Method: DIN 38 412 Part 8

GLP: no

**Ecotoxicology Assessment** 

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

according to Regulation (EC) No. 1907/2006



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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/l)

## **Components:**

guanidinium chloride:

Biodegradability Test Type: aerobic

Inoculum: activated sludge, adapted

Concentration: 10 mg/l

Result: Not readily biodegradable.

Biodegradation: 0 % Exposure time: 33 d

Method: OECD Test Guideline 301C

GLP: yes

Impact on Sewage 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

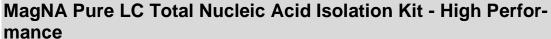
## Lysis/Binding Buffer (CBLB)

## **Components:**

## guanidinium thiocyanate:



according to Regulation (EC) No. 1907/2006



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Biodegradability : Test Type: aerobic

Inoculum: activated sludge, non-adapted

Concentration: 343 mg/l

Result: Inherently biodegradable.

Biodegradation: 46 % Exposure time: 28 d

Method: OECD Test Guideline 302B

GLP: no

Polidocanol:

Biodegradability : Test Type: aerobic

Inoculum: activated sludge Concentration: 30 mg/l Result: Readily biodegradable.

Biodegradation: 74 % Exposure time: 28 d

Method: OECD Test Guideline 301C

Proteinase K

No data available

Tissue Lysis/Proteinase K Buffer II

No data available

**MGPs** 

**Components:** 

propan-2-ol:

Biodegradability : Test Type: aerobic

Inoculum: activated sludge Result: Readily biodegradable.

Biodegradation: 53 % Exposure time: 5 d

GLP: no

Elution Buffer (d-EB)

No data available

12.3 Bioaccumulative potential

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

**Components:** 

guanidinium chloride:

Partition coefficient: n- : log Pow: < -1,7 (20 °C)

octanol/water pH: 7,4

Method: OECD Test Guideline 107

GLP: yes

ethanol:

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

accumulation in organisms is not expected.

according to Regulation (EC) No. 1907/2006



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Partition coefficient: n- : log Pow: -0,35 (24 °C)

octanol/water pH: 7,4

Method: OECD Test Guideline 107 GLP: No information available.

Wash Buffer II

**Components:** 

ethanol:

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

accumulation in organisms is not expected.

Partition coefficient: n- : log Pow: -0,35 (24 °C)

octanol/water pH: 7,4

Method: OECD Test Guideline 107 GLP: No information available.

Wash Buffer III

No data available

Lysis/Binding Buffer (CBLB)

**Components:** 

guanidinium thiocyanate:

Partition coefficient: n- : log Pow: -1,11 (25 °C)

octanol/water pH: > 5,1

Method: Regulation (EC) No. 440/2008, Annex, A.8

GLP: no

Polidocanol:

Partition coefficient: n-

octanol/water

Remarks: No data available

Proteinase K

**Components:** 

Proteinase, Tritirachium album serine:

Partition coefficient: n- : Remarks: No data available

octanol/water

Tissue Lysis/Proteinase K Buffer II

No data available

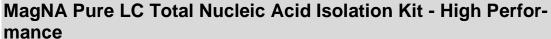
*MGPs* 

Components:

propan-2-ol:

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

according to Regulation (EC) No. 1907/2006



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accumulation in organisms is not expected.

Partition coefficient: n-

log Pow: 0,05 (25 °C) GLP: no

octanol/water

## 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** 

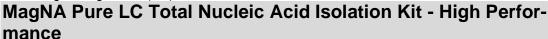
Not relevant

Elution Buffer (d-EB)

Not relevant



according to Regulation (EC) No. 1907/2006



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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 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

according to Regulation (EC) No. 1907/2006



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levels of 0.1% or higher.

**MGPs** 

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.

Elution Buffer (d-EB)

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.

12.7 Other adverse effects

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

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

## **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 chemi-

cal or used container.

Send to a licensed waste management company.



according to Regulation (EC) No. 1907/2006



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Can be disposed as waste water, when in compliance with

local regulations.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

## **SECTION 14: Transport information**

## 14.1 UN number or ID number

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

14.2 UN proper shipping name

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

14.3 Transport hazard class(es)

Class Subsidiary risks

 ADR
 : 9

 RID
 : 9

 IMDG
 : 9

 IATA
 : 9

## 14.4 Packing group

**ADR** 

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

**RID** 

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

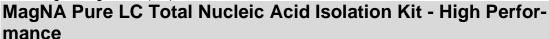
**IMDG** 

Packing group : II Labels : 9

EmS Code : F-A, S-P

IATA (Cargo)

according to Regulation (EC) No. 1907/2006



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960

Packing instruction (cargo

aircraft)

Packing instruction (LQ) : Y960 Packing group : II

Labels : Miscellaneous

IATA (Passenger)

Packing instruction (passen: 960

ger aircraft)

Packing instruction (LQ) : Y960 Packing group : II

Labels : Miscellaneous

14.5 Environmental hazards

**ADR** 

Environmentally hazardous : no

rid

Environmentally hazardous : no

**IMDG** 

Marine pollutant : no

14.6 Special precautions for user

Remarks : No data available

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

14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not applicable

## **SECTION 15: Regulatory information**

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of majoraccident hazards involving dangerous substances.

FLAMMABLE LIQUIDS

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

P<sub>5</sub>c

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:

according to Regulation (EC) No. 1907/2006



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mixtures and articles (Annex XVII)

Number on list 3

REACH - Candidate List of Substances of Very High :

Concern for Authorisation (Article 59).

Not applicable

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

Not applicable

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

tants (recast)

Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import

of dangerous chemicals

Not applicable

REACH - List of substances subject to authorisation

(Annex XIV)

: Not applicable

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

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

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

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

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

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

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

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

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

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

TSCA : All substances listed as active on the TSCA inventory

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

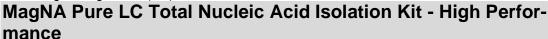
Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial

emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 28,4 %

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

57 / 70

according to Regulation (EC) No. 1907/2006



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Hazard pictograms





Signal word : Warning

Hazard statements : H226 Flammable liquid and vapour.

H302 Harmful if swallowed.H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements : Prevention:

P210 Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking. P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection/ hearing protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immedi-

ately all contaminated clothing. Rinse skin with water. P337 + P313 If eye irritation persists: Get medical advice/

attention.

P370 + P378 In case of fire: Use dry sand, dry chemical or

alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label:

50-01-1 guanidinium chloride

## Wash Buffer II

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 following entries should be considered:

Number on list 3

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

: Not applicable

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

: Not applicable

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

tants (recast)

Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import

of dangerous chemicals

Not applicable

according to Regulation (EC) No. 1907/2006



## MagNA Pure LC Total Nucleic Acid Isolation Kit - High Performance

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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) Volatile organic compounds (VOC) content: 36,48 %

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

Hazard pictograms :





Signal word : Warning

Hazard statements : H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

Precautionary statements : Prevention:

P210 Keep away from heat, hot surfaces, sparks, open

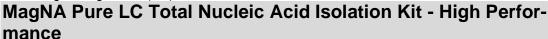
flames and other ignition sources. No smoking.

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection/ hearing protection.

Response:

according to Regulation (EC) No. 1907/2006



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P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P337 + P313 If eye irritation persists: Get medical advice/

attention.

P370 + P378 In case of fire: Use dry sand, dry chemical or

alcohol-resistant foam to extinguish.

Storage:

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

Wash Buffer III

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

mixtures and articles (Annex XVII)

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

Not applicable

: Not applicable

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

Not applicable

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

tants (recast)

Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import

of dangerous chemicals

Not applicable

Not applicable

REACH - List of substances subject to authorisation

(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 : Not in compliance with the inventory

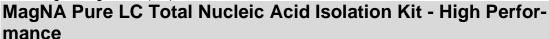
ISHL : Not in compliance with the inventory

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

according to Regulation (EC) No. 1907/2006



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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) Volatile organic compounds (VOC) content: 0,1 %

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

Not a hazardous substance or mixture.

## Lysis/Binding Buffer (CBLB)

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 following entries should be considered:

Number on list 3

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

Not applicable

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

: Not applicable

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

tants (recast)

Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import

of dangerous chemicals

Not applicable

REACH - List of substances subject to authorisation

(Annex XIV)

: Not applicable

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

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

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

NZIoC : Not 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

according to Regulation (EC) No. 1907/2006



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

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

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

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

TSCA : All substances listed as active on the TSCA inventory

TECI: Not in compliance with the inventory

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

emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 15 %

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

Hazard pictograms





Signal word : Danger

Hazard statements : H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

Supplemental Hazard

Statements

EUH032 gas. Contact with acids liberates very toxic

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.

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

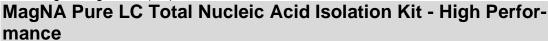
disposal plant.

Hazardous components which must be listed on the label:

593-84-0 guanidinium thiocyanate

9002-92-0 Polidocanol

according to Regulation (EC) No. 1907/2006



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Proteinase K

 $\ensuremath{\mathsf{REACH}}$  - Restrictions on the manufacture, placing on

the market and use of certain dangerous substances,

mixtures and articles (Annex XVII)

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

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

tants (recast)

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import

of dangerous chemicals

REACH - List of substances subject to authorisation

(Annex XIV)

Not applicable

Not applicable

Not applicable

: Not applicable

Not applicable

: 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

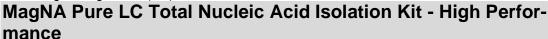
KECI: Not in compliance with the inventory

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

according to Regulation (EC) No. 1907/2006



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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

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word : Danger

Hazard statements : H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

H335 May cause respiratory irritation.

Precautionary statements : Prevention:

P261 Avoid breathing dust.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ eye protection/ face protection.

P284 Wear respiratory protection.

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh

air and keep comfortable for breathing. Call a POISON

CENTER/ doctor if you feel unwell.

P342 + P311 If experiencing respiratory symptoms: Call a

POISON CENTER/ doctor.

Hazardous components which must be listed on the label:

39450-01-6 Proteinase, Tritirachium album serine

Tissue Lysis/Proteinase K Buffer II

REACH - Restrictions on the manufacture, placing on

the market and use of certain dangerous substances,

mixtures and articles (Annex XVII)

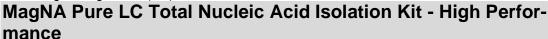
: Not applicable

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

: Not applicable

according to Regulation (EC) No. 1907/2006



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Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

Not applicable

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

tants (recast)

Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import

of dangerous chemicals

Not applicable

REACH - List of substances subject to authorisation

(Annex XIV)

: Not applicable

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

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

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

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

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

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

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

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

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

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

TSCA : All substances listed as active on the TSCA inventory

TECI: 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

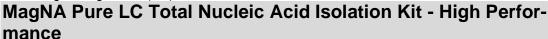
## Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

#### **MGPs**

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 following entries should be considered: Number on list 3

according to Regulation (EC) No. 1907/2006



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REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

Not applicable

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

Not applicable

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

tants (recast)

Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import

of dangerous chemicals

: Not applicable

REACH - List of substances subject to authorisation

(Annex XIV)

: Not applicable

## Other regulations:

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

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

AIIC : Not in compliance with the inventory

DSL : This product contains the following components that are not

on the Canadian DSL nor NDSL.

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

66 / 70

according to Regulation (EC) No. 1907/2006



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Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

**!** 

Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements : Prevention:

P210 Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking.

P233 Keep container tightly closed.P261 Avoid breathing mist or vapours.

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection/ hearing protection.

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 de-

plete the ozone laver

: Not applicable

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

tants (recast)

: Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import

of dangerous chemicals

Not applicable

according to Regulation (EC) No. 1907/2006



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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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according to Regulation (EC) No. 1907/2006



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H319 : Causes serious eye irritation.

H332 : Harmful if inhaled.

H334 : May cause allergy or asthma symptoms or breathing difficul-

ties if inhaled.

H335 : May cause respiratory irritation. H336 : May cause drowsiness or dizziness.

H412 : Harmful to aquatic life with long lasting effects.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Chronic : Long-term (chronic) aquatic hazard

Eye Dam. : Serious eye damage

Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
Resp. Sens. : Respiratory sensitisation

Skin Corr. : Skin corrosion
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

STOT SE : Specific target organ toxicity - single exposure

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

according to Regulation (EC) No. 1907/2006



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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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