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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 DNA Isolatic	on Kit II (Tissue)	
	Product code	:	03186229001		
1.2	Relevant identified uses of the	ne s	substance or mixture and use	es advised against	
	Recommended restrictions on use	:	For use in research only		
1.3	Details of the supplier of the	saf	ety data sheet		
	Company	:	Roche Diagnostics Deutschla Sandhoferstrasse 116 68305 Mannheim Deutschland	ind GmbH	
	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 Roche Diagnostics GmbH	+49(0)621-759-2203	
	Centre for detoxification:	:	Mainz	+49(0)6131-19240	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)





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		 H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H412 Harmful to aquatic life with long lasting effects.
Supplemental Hazard Statements	:	EUH032 Contact with acids liberates very toxic gas.
		EUH071 Corrosive to the respiratory tract.
Precautionary statements	:	 Prevention: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 Avoid breathing mist or vapours. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
		 Response: P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

2.3 Other hazards

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

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

SECTION 3: Composition/information on ingredients

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

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3

H226: Flammable liquid and vapour.

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according to Regulation (EC) No. 1907/2006 MagNA Pure LC DNA Isolation Kit II (Tissue)

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Acute toxicity, Category 4	H302: Harmful if swallowed.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.

Components

SAFETY DATA SHEET

Chemical name	CAS-No. EC-No. Index-No.	Classification	Concentration (% w/w)
	Registration number		
guanidinium chloride	50-01-1 200-002-3 607-148-00-0 01-2119977063-35	Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute toxicity esti- mate Acute oral toxicity: 475 mg/kg Acute inhalation tox- icity (dust/mist): 3,2 mg/l	>= 30,0 - < 50,0
ethanol	64-17-5 200-578-6 603-002-00-5 01-2119457610-43	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 (d-WB3)



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Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Components

Remarks

: No hazardous ingredients

For explanation of abbreviations see section 16.

Lysis/Binding Buffer

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4	H302: Harmful if swallowed.
Skin corrosion, Sub-category 1C	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Long-term (chronic) aquatic hazard, Cat- egory 3	H412: Harmful to aquatic life with long lasting ef- fects.

Components

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

For explanation of abbreviations see section 16.



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Magnetic Glass Particles

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2	H225: Highly flammable liquid and vapour.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Specific target organ toxicity - single ex- posure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.

Components

Chemical name	CAS-No.	Classification	Concentration
Chemical name CAS-INO.		Classification	
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
propan-2-ol	67-63-0	Flam. Liq. 2; H225	>= 70,0 - <
	200-661-7	Eye Irrit. 2; H319	90,0
	603-117-00-0	STOT SE 3; H336	
	01-2119457558-25	(Central nervous	
		system)	

For explanation of abbreviations see section 16.

Elution Buffer

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Components

Remarks

For explanation of abbreviations see section 16.

: No hazardous ingredients

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.

Proteinase K

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2

H315: Causes skin irritation.

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Eye irritation,	Category 2	H319: Causes serious eye irritation.
Respiratory s	ensitisation, Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitisation, Category 1 Specific target organ toxicity - single ex- posure, Category 3, Respiratory system		H317: May cause an allergic skin reaction.
		H335: May cause respiratory irritation.

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Components

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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.

SECTION 4: First aid measures

4.1 Description of first aid measures

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



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If swallowed	 Keep 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
	Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	: No information available.
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 High volume water jet : media 5.2 Special hazards arising from the substance or mixture Specific hazards during fire-: Do not allow run-off from fire fighting to enter drains or water fighting courses. Hazardous combustion prod- : In case of fire hazardous decomposition products may be produced such as: ucts Carbon oxides Nitrogen oxides (NOx) Sulphur oxides Hydrogen cyanide (hydrocyanic acid) 5.3 Advice for firefighters Special protective equipment : Wear self-contained breathing apparatus for firefighting if necfor firefighters 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 separately in closed containments.

Use a water spray to cool fully closed containers.



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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	 Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Refer to protective measures listed in sections 7 and 8.
	Refer to protective measures listed in sections 7 and 8.
	Beware of vapours accumulating to form explosive concentra- tions. Vapours can accumulate in low 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 non-combustible ab-
		sorbent material, (e.g. sand, earth, diatomaceous earth, ver-
		miculite) and place in container for disposal according to local
		/ national regulations (see section 13).

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	:	 Avoid formation of aerosol. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. To prevent leaks or spillages from spreading, provide a suitable liquid retention system.
Advice on protection against fire and explosion	:	Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.



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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.
Conditions for safe storage	, inc	luding any incompatibilities
Requirements for storage		No smoking. Keep container tightly closed in a dry and well-

Requirements for storage areas and containers) :	No smoking. Keep container tightly closed in a dry and well- ventilated place. Containers which are opened must be care- fully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the techno- logical safety standards.
Further information on sto age conditions	o r- :	See label, package insert or internal guidelines
Storage class (TRGS 510	D) :	3, Flammable liquids
Further information on sto age stability	or- :	No decomposition if stored and applied as directed.
7.3 Specific end use(s)		
Specific use(s)	:	This product contains a substance on REACH Annex XIV (substance of very high concern due to endocrine disrupting properties for the environment) at or above 0.1% w/w and may

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

7.2

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

Occupational Exposure Limits

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

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

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

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

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

Wash Buffer II

Occupational Exposure Limits

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

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

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

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

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

Wash Buffer III (d-WB3)

Contains no substances with occupational exposure limit values.

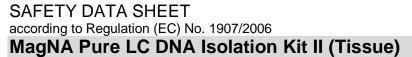
Lysis/Binding Buffer

Occupational Exposure Limits

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

Magnetic Glass Particles

Occupational Exposure Limits





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Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis	
propan-2-ol	67-63-0	AGW	200 ppm 500 mg/m3	DE TRGS 900	
	Peak-limit: excursion factor (category): 2;(II)				
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child				

Biological occupational exposure limits

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

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

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

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

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

Elution Buffer

Contains no substances with occupational exposure limit values.

Tissue Lysis/Proteinase K Buffer II

Contains no substances with occupational exposure limit values.

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

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

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

Substance name	Environmental Compartment	Value
dipotassium hydrogenorthophos- phate	Fresh water	0,05 mg/l



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Marine water	0,005 mg/l
Intermittent use/release	0,5 mg/l
Sewage treatment plant	100 mg/l

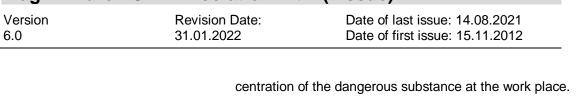
Proteinase K

Occupational Exposure Limits

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

8.2 Exposure controls

Engineering measures		
No data available		
Personal protective equipment		
Eye protection	Eye wash bottle with pure water Tightly fitting safety goggles Wear face-shield and protective suit for abnormal process problems.	sing
	Use eye protection according to EN 166.	
Hand protection Material Break through time Glove thickness	In case of contact through splashing: Nitrile rubber > 30 min > 0,11 mm	
Material Break through time Glove thickness Remarks	In case of full contact: butyl-rubber > 480 min > 0,4 mm	
Remarks	The selected protective gloves have to satisfy the specific tions of Regulation (EU) 2016/425 and the standard EN 3 derived from it. This recommendation is only valid for the product mentioned in the safety data sheet and provided us and for the application specified by us. Please observe instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also tak 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 workpla should be discussed with the producers of the protective gloves.	574 by e the e e ch
Skin and body protection	Impervious clothing Choose body protection according to the amount and con)-



Respiratory protection	:	In the case of vapour formation use a respirator with an ap-
		proved filter.

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SECTION 9: Physical and chemical properties

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

Physical state	:	liquid
Colour	:	colourless
Odour	:	characteristic
Odour Threshold	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flammability	:	Sustains combustion
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	29 °C
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	6,6 (25 °C)
Viscosity Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Solubility(ies) Water solubility	:	completely miscible
Solubility in other solvents	:	No data available
Partition coefficient: n- octanol/water	:	No data available
Vapour pressure	:	43 hPa



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Relative density	: No data avail	able
Density	: 1,057 g/cm3	
Relative vapour density	-	able
Wash Buffer II		
Physical state	: liquid	
Colour	: colourless	
Odour	: alcohol-like	
Odour Threshold	: No data avail	able
Melting point/range	: No data avail	able
Boiling point/boiling rang	ge : No data avail	able
Upper explosion limit / L flammability limit	Jpper : No data avail	able
Lower explosion limit / L flammability limit	ower : No data avail	able
Flash point	24 °C	
Auto-ignition temperatur	e : No data avail	able
Decomposition tempera	ture : No data avail	able
рН	: 4,0	
Viscosity Viscosity, dynamic	: No data avail	able
Viscosity, kinematic	: No data avail	able
Solubility(ies) Water solubility	: completely m	iscible
Solubility in other sol	vents : No data avail	able
Partition coefficient: n- octanol/water	: No data avail	able
Vapour pressure	: 43 hPa	
Relative density	: No data avail	able
Density	: 0,95 g/cm3 (2	25 °C)



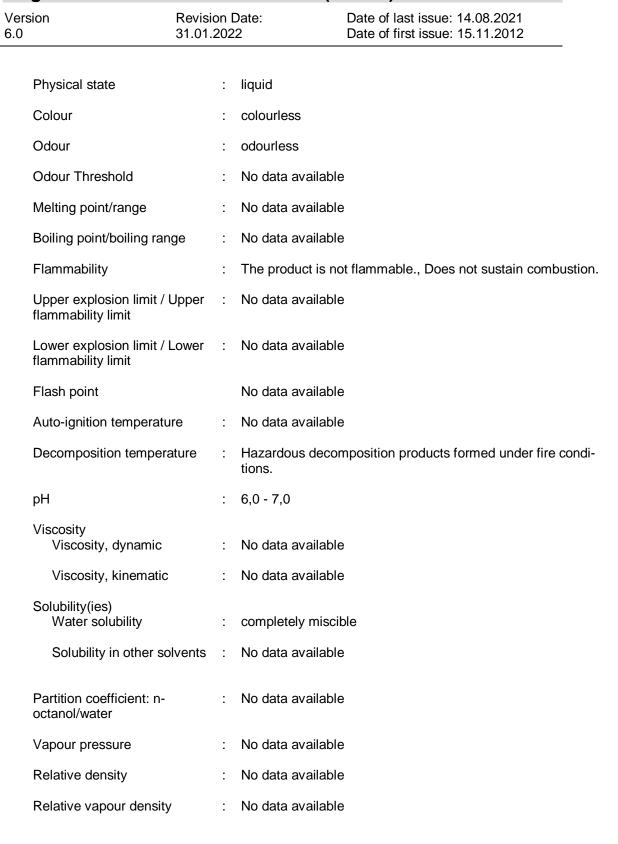
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Relative vapour density : No data available

Wash Buffer III (d-WB3)

Physical state	:	liquid
Colour	:	colourless
Odour	:	odourless
Odour Threshold	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flammability	:	The product is not flammable., Does not sustain combustion.
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point		No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	4,0 (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

Lysis/Binding Buffer



Roch

Magnetic Glass Particles

Physical state	:	liquid
Colour	:	red brown



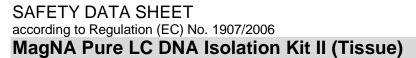


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Odour	:	alcohol-like
Odour Threshold	:	No data available
Melting point/range	:	-89 °C
Boiling point/boiling range	:	82 °C
Upper explosion limit / Upper flammability limit	:	13,4 %(V)
Lower explosion limit / Lower flammability limit	:	2 %(V)
Flash point		13 °C
Auto-ignition temperature	:	425 °C
Decomposition temperature	:	No data available
рН	:	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
Relative vapour density	:	No data available

Elution Buffer

Physical state	:	liquid
Colour	:	colourless
Odour	:	none
Odour Threshold	:	No data available
Melting point/range	:	No data available



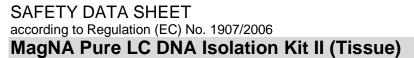


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Boiling point/boiling range	:	No data available
Flammability	:	The product is not flammable., Does not sustain combustion.
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point		No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	8,9
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
Relative vapour density	:	No data available

Tissue Lysis/Proteinase K Buffer II

Colour:colourlessOdour:noneOdour Threshold:No data availableMelting point/range:No data availableBoiling point/boiling range:No data availableFlammability:Does not sustain combustion.	Physical state	:	liquid
Odour Threshold : No data available Melting point/range : No data available Boiling point/boiling range : No data available	Colour	:	colourless
Melting point/range : No data available Boiling point/boiling range : No data available	Odour	:	none
Boiling point/boiling range : No data available	Odour Threshold	:	No data available
	Melting point/range	:	No data available
Flammability : Does not sustain combustion.	Boiling point/boiling range	:	No data available
	Flammability	:	Does not sustain combustion.





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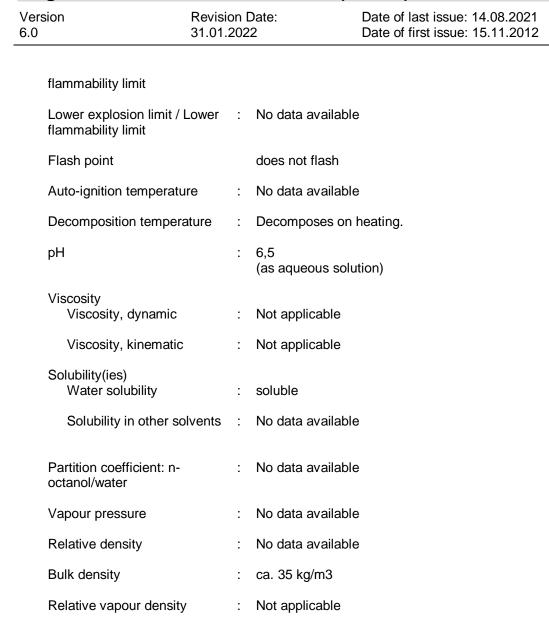
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point		No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	6,6 - 6,9
Viscosity		
Viscosity, dynamic	:	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
Relative vapour density	:	No data available

Proteinase K

Physical state	:	solid, (lyophilised)
Colour		white
Odour	:	very faint
Odour Threshold	:	Not applicable
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flammability	:	Sustains combustion
Upper explosion limit / Upper	:	No data available



Roch



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



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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 (d-WB3)

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

Lysis/Binding Buffer

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

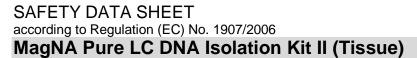
Magnetic Glass Particles

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

Elution Buffer

Explosives

: Not explosive





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

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

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

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



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Hazardous reactio	Keep away Reacts with Acids Oxidizing a sodium hy No decom	
10.4 Conditions to ave		
Conditions to avoid		o light. to moisture
	Heat, flame	es and sparks.
10.5 Incompatible mat	terials	
Materials to avoid	: Strong acio Strong oxio Cyanides sodium hy	dizing agents

10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapours. 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

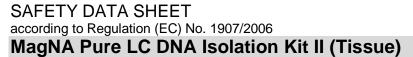
11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Wash Buffer I (d-WB I m/I)

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



ersion 0	Revision Date: 31.01.2022	Date of last issue: 14.08.2021 Date of first issue: 15.11.2012	
		CD Test Guideline 403	
	Exposure til Test atmos	male and female): 5,32 mg/l me: 4 h bhere: dust/mist CD Test Guideline 403	
	Exposure til Test atmos	male): 7,7 mg/l me: 4 h bhere: dust/mist :CD Test Guideline 403	
	Test atmos	ty estimate: 3,2 mg/l bhere: dust/mist lculation method	
Acute dermal toxicity	Method: OE GLP: yes Assessmen toxicity	al (Rabbit, male and female): > 2.000 mg/kg CD Test Guideline 402 t: The substance or mixture has no acute dern lo mortality observed at this dose.	
ethanol:			
Acute oral toxicity		male and female): 10.470 mg/kg CD Test Guideline 401	
Acute inhalation toxicity	Exposure ti Test atmos	male and female): 124,7 mg/l me: 4 h bhere: vapour :CD Test Guideline 403	
Acute dermal toxicity	GLP: No inf	7.100 mg/kg ormation available. ased on data from similar materials	
Skin corrosion/irritation Causes skin irritation.	on		
Components:			
guanidinium chloride Species Exposure time Result GLP	: Rabbit : 24 h : Irritating to : : yes	skin.	

ethanol:





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

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

guanidinium chloride:

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

ethanol:

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

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

guanidinium chloride:

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

ethanol:

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

Germ cell mutagenicity

SAFETY DATA SHE		
lagNA Pure LC D		t II (Tissue)
ersion .0	Revision Date: 31.01.2022	Date of last issue: 14.08.2021 Date of first issue: 15.11.2012
Components:		
guanidinium chloride	:	
Genotoxicity in vitro	Test syste Metabolic	Microbial mutagenesis assay (Ames test) m: Salmonella typhimurium activation: with and without metabolic activatio ECD Test Guideline 471 gative
	Test syste	Chromosome aberration test in vitro m: Chinese hamster fibroblasts ECD Test Guideline 473 gative
ethanol:		
Genotoxicity in vitro	Test syste Metabolic Method: C Result: ne	Microbial mutagenesis assay (Ames test) m: Salmonella typhimurium activation: with and without metabolic activatio ECD Test Guideline 471 gative nformation available.
	Test syste Metabolic Method: O Result: ne	In vitro mammalian cell gene mutation test m: mouse lymphoma cells activation: with and without metabolic activation ECD Test Guideline 476 gative nformation available.
Genotoxicity in vivo	Species: N Application	dominant lethal test louse (male) n Route: Oral or 40% ethanol in water

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

Method: OECD Test Guideline 478

GLP: No information available.

Result: negative



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Reproductive toxicity

Components:

Not classified based on available information.

guanidinium chloride: Effects on foetal develop-: Species: Rat, female ment 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 5 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-Species: Rat, female Strain: Sprague-Dawley ment **Application Route: Ingestion Duration of Single Treatment: 6 Weeks** Developmental Toxicity: NOAEL: 5.200 mg/kg body weight GLP: No information available.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

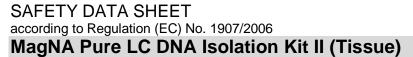
Components:

guanidinium chloride:

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

ethanol:

Species	:	Rat, male and female
LOAEL	:	3156 mg/kg





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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:

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:

 -	Rabbit OECD Test Guideline 405
	Irritating to eyes. No information available.



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Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

ethanol:

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

Germ cell mutagenicity

Not classified based on available information.

Components:

ethanol:

Genotoxicity in vitro :	Test Type: Microbial mutagenesis assay (Ames test) Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: No information available.
	Test Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative GLP: No information available.
Genotoxicity in vivo :	Test Type: dominant lethal test Species: Mouse (male) Application Route: Oral Dose: 10 or 40% ethanol in water Method: OECD Test Guideline 478 Result: negative GLP: No information available.

Carcinogenicity

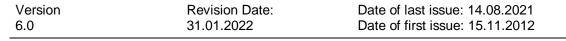
Not classified based on available information.

Components:

ethanol:

Species

: Mouse, male and female



Roch

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.

Repeated dose toxicity

Components:

ethanol:

Aspiration toxicity

Not classified based on available information. *Wash Buffer III (d-WB3)*





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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. *Lysis/Binding Buffer*

Acute toxicity

Harmful if swallowed.

Components:

guanidinium thiocyanate:

Acute oral toxicity	:	LD50 Oral (Rat, female): 593 mg/kg Method: OECD Test Guideline 401 Symptoms: Vomiting GLP: yes
		Acute toxicity estimate: 593 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Assessment: Corrosive to the respiratory tract., The 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.

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



/ersion .0	Revision Date: 31.01.2022	Date of last issue: 14.08.2021 Date of first issue: 15.11.2012
Acute oral toxicity	: LD50 Oral	(Rat): 1.900 - 5.000 mg/kg
		ity estimate: 500 mg/kg pert judgement
Acute dermal toxicity	: LD50 Derm	nal (Rabbit): > 3.000 mg/kg
Skin corrosion/irrita Causes severe burns		
Components:		
guanidinium thiocya Species Exposure time Method Result GLP	: Rabbit : 4 h : OECD Test	t Guideline 404 Ifter 1 to 4 hours of exposure
Serious eye damage Causes serious eye d	•	
Components:		
alpha-(4-(1,1,3,3-Tet Result Remarks	: Risk of seri	omega-hydroxypoly(oxy-1,2-ethanediyl): ous damage to eyes. irreversible eye damage.
Respiratory or skin	sensitisation	
Skin sensitisation		
	on available information.	
Respiratory sensitis	ation on available information.	
Germ cell mutagenic	city on available information.	
Components:		
guanidinium thiocya	nate:	
Genotoxicity in vitro	: Test Type: Test systen Metabolic a	Microbial mutagenesis assay (Ames test) n: Salmonella typhimurium activation: with and without metabolic activat ECD Test Guideline 471 Jative
	Test system Metabolic a	Chromosome aberration test in vitro n: Human lymphocytes activation: with and without metabolic activat ECD Test Guideline 473

Result: negative

GLP: no



Version 5.0	Revision Date: 31.01.2022	Date of last issue: 14.08.2021 Date of first issue: 15.11.2012
	Test system Metabolic a	gene mutation test n: mouse lymphoma cells activation: with and without metabolic activatic ECD Test Guideline 476 ative
Carcinogenicity		
Not classified bas	sed on available information.	
Reproductive to	xicity	
Not classified bas	sed on available information.	
Components:		
guanidinium thi	ocyanate:	
Effects on fertility	: Species: Ra Application Dose: 25 GLP: no Remarks: N	at, female Route: Oral No significant adverse effects were reported ata from similar materials
Effects on foetal of ment	Application Dose: 50, 1 General To Embryo-foe	at, female Route: Oral 50, 350 mg/kg bw/day xicity Maternal: NOAEL: 150 mg/kg bw/day atal toxicity: NOAEL: 350 mg/kg body weight ECD Test Guideline 414

STOT - single exposure

Corrosive to the respiratory tract.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

guanidinium thiocyanate:

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

Aspiration toxicity



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Magnetic Glass Particles

Acute toxicity

Not classified based on available information.

Components:

propan-2-ol:

Acute oral toxicity :	LD50 (Rat): 5.840 mg/kg Method: OECD Test Guideline 401 GLP: no
Acute inhalation toxicity :	LC50 (Rat, male and female): > 10000 ppm Exposure time: 6 h Test atmosphere: vapour Method: OECD Test Guideline 403 GLP: yes
Acute dermal toxicity :	LD50 (Rabbit): 13.900 mg/kg Method: OECD Test Guideline 402 GLP: no

Skin corrosion/irritation

Not classified based on available information.

Components:

propan-2-ol:

Species	: F	Rabbit
Exposure time	: 4	1 h
Result	1 :	No skin irritation
GLP	: r	סו

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

propan-2-ol:

		Rabbit OECD Test Guideline 405 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



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Components:

propan-2-ol:		
Test Type	:	Buehler Test
Species	:	Guinea pig
Assessment	:	Does not cause skin sensitisation.
Method	:	OECD Test Guideline 406
GLP	:	yes

Germ cell mutagenicity

Not classified based on available information.

Components:

propan-2-ol:

Genotoxicity in vitro	: Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative GLP: yes
	Test Type: Microbial mutagenesis assay (Ames test) Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: no
Genotoxicity in vivo	 Test Type: In vivo micronucleus test 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



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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.

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

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation



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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. *Tissue Lysis/Proteinase K Buffer II*

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.



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Aspiration toxicity

Not classified based on available information.

Proteinase K

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Causes skin irritation.

Components:

Proteinase, Tritirachium album serine:

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

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

Proteinase, Tritirachium album serine:

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

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

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

Components:

Proteinase, Tritirachium album serine:

Assessment May cause sensitisation by skin contact. 1 Remarks Causes sensitisation. 5

1

- 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.



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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

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

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

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

Endocrine disrupting properties

Product:

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

Further information

Product:

Remarks :	Solvents may degr	ease the skin.
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Wash Buffer II



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Endocrine disrupting properties

Product:

Assessment

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

Further information

Product:

Remarks Solvents may degrease the skin.

Wash Buffer III (d-WB3)

Endocrine disrupting properties

Product:

Assessment

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

Lysis/Binding Buffer

Endocrine disrupting properties

Product:

Assessment

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

Magnetic Glass Particles

Endocrine disrupting properties

Product:

Assessment The substance/mixture does not contain components consid-1 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

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause



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narcotic effects. Solvents may degrease the skin.

Elution Buffer

Endocrine disrupting properties

Product:

Assessment

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

Tissue Lysis/Proteinase K Buffer II

Endocrine disrupting properties

Product:

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

Proteinase K

Endocrine disrupting properties

Product:

Assessment

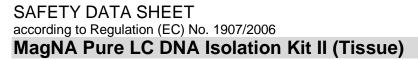
: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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





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aquatic invertebra	ites	End point: Immol Exposure time: 4 Test Type: static Analytical monito Method: OECD T GLP: No informa	8 h test pring: yes Fest Guideline 202
Toxicity to algae/a plants	aquatic :	mg/l End point: Growt Exposure time: 7 Test Type: static Analytical monito	2 h test
		mg/l Exposure time: 7 Test Type: static Analytical monito	test
		mg/l End point: Growt Exposure time: 7 Test Type: static Analytical monito	2 h test
Toxicity to microo	rganisms :	EC10 (Pseudome End point: Growt Exposure time: 1 Test Type: static Method: DIN 38 4 GLP: yes	8 h test
Toxicity to fish (Cl icity)	nronic tox- :	Test Type: flow-t Analytical monito	ity 5 d ales promelas (fathead minnow) hrough test pring: yes Fest Guideline 210
Toxicity to daphnia aquatic invertebra ic toxicity)		Analytical monito	1 d a magna (Water flea)



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GLP: No information available.

Ecotoxicology Assessment Acute aquatic toxicity	:	This product has no known ecotoxicological effects.
Chronic aquatic toxicity	:	This product has no known ecotoxicological effects.
Toxicity Data on Soil	:	Not expected to adsorb on soil.
Other organisms relevant to the environment	:	No data available
ethanol: Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 15.300 mg/l End point: mortality Exposure time: 96 h Test Type: flow-through test Analytical monitoring: yes GLP: No information available.
Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Ceriodaphnia dubia (water flea)): 5.012 mg/l Exposure time: 48 h Test Type: static test GLP: No information available.
Toxicity to algae/aquatic plants	:	EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l Exposure time: 5 d Analytical monitoring: no Method: OECD Test Guideline 201 GLP: No information available.
Toxicity to microorganisms	:	IC50 (activated sludge): > 1.000 mg/l End point: Growth rate Exposure time: 3 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 209 GLP: No information available. 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	:	No data available



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the environment

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 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 (d-WB3)		

No data available Lysis/Binding Buffer



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Components:

guanidinium thiocyanate:		
Toxicity to fish	:	LC50 (Poecilia reticulata (guppy)): 89,1 mg/l End point: mortality Exposure time: 96 h Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 203
		GLP: no
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia (water flea)): 42,4 mg/l End point: Immobilization Exposure time: 48 h Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 202 GLP: no
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): 130 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test GLP: No information available.
Toxicity to microorganisms	:	EC50 (activated sludge): > 185 mg/l Exposure time: 28 d Test Type: static test Method: OECD Test Guideline 302B GLP: yes
Ecotoxicology Assessment		
Chronic aquatic toxicity	:	Harmful to aquatic life with long lasting effects.
Toxicity Data on Soil	:	Not expected to adsorb on soil.
Other organisms relevant to the environment	:	No data available
alpha-(4-(1.1.3.3-Tetramethy	lbu	ityl)phenyl)-omega-hydroxypoly(oxy-1,2-ethanediyl):
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 4 - 8,9 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 18 - 26 mg/l Exposure time: 48 h
Ecotoxicology Assessment		
Chronic aquatic toxicity	:	Toxic to aquatic life with long lasting effects.
Toxicity Data on Soil	:	Not expected to adsorb on soil.
Other organisms relevant to the environment	:	No data available



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Magnetic Glass Particles

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		Not every stad to adepute an apil
Toxicity Data on Soil	:	Not expected to adsorb on soil.
Other organisms relevant to the environment	:	No data available
Elution Buffer		
No data available Tissue Lysis/Proteinase K I	Bu	ffer II
No data available		

Proteinase K

Components:

Proteinase, Tritirachium album serine:

Ecotoxicology Assessment

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





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	Other organisms relevant the environment	t to :	No data available
	2 Persistence and degrad ash Buffer I (d-WB I n	-	
	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.
Wá	ash 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.
Wa	ash Buffer III (d-WB3))	
Ly	No data available sis/Binding Buffer		
	Components:		
	guanidinium thiocyana Biodegradability	t e: :	Test Type: aerobic Inoculum: activated sludge, non-adapted Concentration: 343 mg/l



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Result: Inherently biodegradable. Biodegradation: 46 % Exposure time: 28 d Method: OECD Test Guideline 302B GLP: no

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

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

Magnetic Glass Particles

Components:

propan-2-ol:

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

Elution Buffer

No data available Tissue Lysis/Proteinase K Buffer II

No data available

Proteinase K

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



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Wash Buffer II

Components:

ethanol:

Bioaccumulation	:	Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.
Partition coefficient: n- octanol/water	:	log Pow: -0,35 (24 °C) pH: 7,4

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

Wash Buffer III (d-WB3)

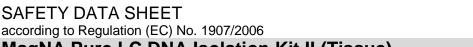
No data available Lysis/Binding Buffer

Components:

	guanidinium thiocyanate: Partition coefficient: n- octanol/water	:	log Pow: -1,11 (25 °C) pH: > 5,1 Method: Regulation (EC) No. 440/2008, Annex, A.8 GLP: no
	alpha-(4-(1 1 3 3-Tetramethy	lhu	tyl)phenyl)-omega-hydroxypoly(oxy-1,2-ethanediyl):
	Bioaccumulation	:	
	Partition coefficient: n- octanol/water	:	Remarks: No data available
Ма	gnetic Glass Particles		
	Components:		
	propan-2-ol:		
	Bioaccumulation	:	Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.
	Partition coefficient: n- octanol/water	:	log Pow: 0,05 (25 °C) GLP: no
Elu	ıtion Buffer		
	No data available		

Tissue Lysis/Proteinase K Buffer II

No data available Proteinase K





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Components:

Proteinase, Tritirachium album serine:

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

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 (d-WB3)

No data available Lysis/Binding Buffer

No data available Magnetic Glass Particles

No data available **Elution Buffer**

No data available Tissue Lysis/Proteinase K Buffer II

No data available

Proteinase K

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 (d-WB3)

Not relevant Lysis/Binding Buffer

Not relevant Magnetic Glass Particles

Not relevant **Elution Buffer**

Not relevant Tissue Lysis/Proteinase K Buffer II

Not relevant Proteinase K

Not relevant



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12.6 Endocrine disrupting	properties	
Product:		
Assessment	have endo ing to REA	ance/mixture contains components considered to crine disrupting properties for environment, accord-CH Article 57(f), Commission Regulation (EU) or Commission Delegated Regulation (EU).
Wash Buffer I (d-WB I	' m/l)	
Product:		
Assessment	ered to hav REACH Ar (EU) 2017/	ance/mixture does not contain components consid- ve endocrine disrupting properties according to ticle 57(f) or Commission Delegated regulation '2100 or Commission Regulation (EU) 2018/605 at 1% or higher.
Wash Buffer II		
Assessment	ered to hav REACH Ar (EU) 2017/	ince/mixture does not contain components consid- ve endocrine disrupting properties according to ticle 57(f) or Commission Delegated regulation (2100 or Commission Regulation (EU) 2018/605 at 1% or higher.
Wash Buffer III (d-WB	3)	
Assessment	ered to hav REACH Ar (EU) 2017/	Ince/mixture does not contain components consid- ve endocrine disrupting properties according to ticle 57(f) or Commission Delegated regulation (2100 or Commission Regulation (EU) 2018/605 at 1% or higher.
Lysis/Binding Buffer		
Assessment	have endo ing to REA	ance/mixture contains components considered to crine disrupting properties for environment, accord-CH Article 57(f), Commission Regulation (EU) or Commission Delegated Regulation (EU).
Components:		
alpha-(4-(1,1,3,3-Tetra	methylbutyl)phenyl)	-omega-hydroxypoly(oxy-1,2-ethanediyl):
Assessment		nce is considered to have endocrine disrupting according to REACH Article 57(f) for the environ-
Magnetic Glass Partic	eles	
Product:		
Assessment		nce/mixture does not contain components consid- ve endocrine disrupting properties according to



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	(EU) 2017/	ticle 57(f) or Commission Delegated regulation 2100 or Commission Regulation (EU) 2018/605 1% or higher.
Elution Buffer		
Assessment	ered to hav REACH Ar (EU) 2017/	nce/mixture does not contain components consive endocrine disrupting properties according to ticle 57(f) or Commission Delegated regulation 2100 or Commission Regulation (EU) 2018/605 1% or higher.
Tissue Lysis/Proteina	ase K Buffer II	
Assessment	ered to hav REACH Ar (EU) 2017/	Ince/mixture does not contain components consi- ve endocrine disrupting properties according to ticle 57(f) or Commission Delegated regulation 2100 or Commission Regulation (EU) 2018/605 1% or higher.
Proteinase K		
Assessment	ered to hav REACH Ar (EU) 2017/	Ince/mixture does not contain components consi- ve endocrine disrupting properties according to ticle 57(f) or Commission Delegated regulation 2100 or Commission Regulation (EU) 2018/605 1% or higher.
12.7 Other adverse effects	S	
Wash Buffer I (d-WB	I m/I)	
No data available Wash Buffer II		
No data available Wash Buffer III (d-WE	33)	
No data available Lysis/Binding Buffer		
No data available <i>Magnetic Glass Parti</i>	cles	
No data available <i>Elution Buffer</i>		
No data available Tissue Lysis/Proteina	ase K Buffer II	
No data available Proteinase K		
No data available		



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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	: The product contains a substance on REACH Annex XIV at or above 0.1% w/w. Cartridges / rests of product to be dis- posed of as if it was hazardous waste.
	The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemi- cal or used container. Send to a licensed waste management company.
Contaminated packaging	 Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

14.1 UN number or ID number

ADR	:	UN 1170
IMDG	:	UN 1170
ΙΑΤΑ	:	UN 1170
14.2 UN proper shipping name		
ADR	:	ETHANOL
IMDG	:	ETHANOL
ΙΑΤΑ	:	Ethanol
14.3 Transport hazard class(es)		
ADR	:	3
IMDG	:	3
ΙΑΤΑ	:	3
14.4 Packing group		
ADR Packing group Classification Code Hazard Identification Number Labels Tunnel restriction code IMDG Packing group Labels		-
EmS Code IATA (Cargo)	:	F-E, S-D



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	evision Date: 1.01.2022	Date of last issue: 14.08.2021 Date of first issue: 15.11.2012
Packing instruction (cargo aircraft) Packing instruction (LQ) Packing group Labels		juids
IATA (Passenger) Packing instruction (passe ger aircraft) Packing instruction (LQ) Packing group Labels		juids
14.5 Environmental hazards		
ADR Environmentally hazardou IMDG	s : no	
Marine pollutant	: no	
14.6 Special precautions for		
Remarks	: No data availa	ble

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 major- accident hazards involving dangerous substances.	:	P5c	FLAMMABL	E L.	IQUIDS
Water hazard class (Germa- : WGK 2 obviously hazardous to water ny)					
Wash Buffer I (d-WB I n	1/I))			
REACH - Restrictions on the n the market and use of certain			-	:	Conditions of restriction for the fol- lowing entries should be considered:

preparations and articles (Annex XVII)Number on list 3REACH - Candidate List of Substances of Very High
Concern for Authorisation (Article 59).Not applicable

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006 MagNA Pure LC DNA Isolation Kit II (Tissue)



	Revision Date: 31.01.2022	Date of last issue: 14.08.2021 Date of first issue: 15.11.2012
Regulation (EC) No 100 plete the ozone layer	5/2009 on substances tha	t de- : Not applicable
Regulation (EU) 2019/10 tants (recast))21 on persistent organic	pollu- : Not applicable
- , ,	/2012 of the European Pa ncerning the export and in	••
REACH - List of substan (Annex XIV)	ces subject to authorisation	on : Not applicable
The components of thi AIIC		n the following inventories: ry, or in compliance with the inventory
DSL	: All components	s of this product are on the Canadian DSI
NZIOC	: On the inventor	ry, or in compliance with the inventory
ENCS	: On the inventor	ry, or in compliance with the inventory
ISHL	: On the inventor	ry, or in compliance with the inventory
KECI	: On the inventor	ry, or in compliance with the inventory
PICCS	: On the inventor	ry, or in compliance with the inventory
IECSC	: On the inventor	ry, or in compliance with the inventory
TCSI	: On the inventor	ry, or in compliance with the inventory
TSCA	: All substances	listed as active on the TSCA inventory
TECI	: Not in compliar	nce with the inventory
Volatile organic compou	emissions (inte	75/EU of 24 November 2010 on industria grated pollution prevention and control) c compounds (VOC) content: 28,4 %

Labelling (REGULATION (EC) No 1272/2008)

:

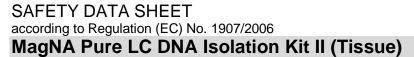
:

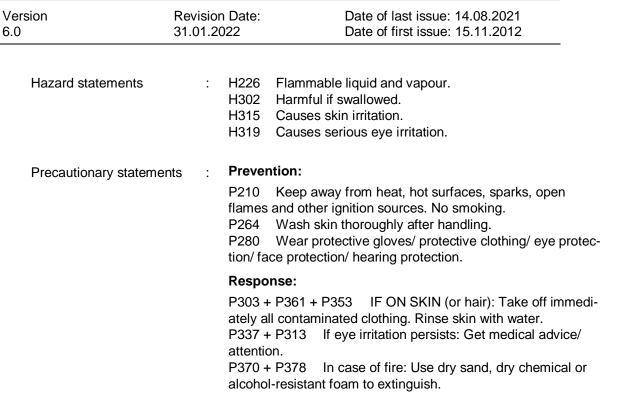
Hazard pictograms



Signal word

Warning





Roch

Hazardous components which must be listed on the label:

50-01-1 guanidinium chloride

Wash Buffer II

REACH - Restrictions on the m the market and use of certain of preparations and articles (Anne	langerous substances,	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 3
REACH - Candidate List of Sul Concern for Authorisation (Artic	, ,	:	Not applicable
Regulation (EC) No 1005/2009 plete the ozone layer	on substances that de-	:	Not applicable
Regulation (EU) 2019/1021 on tants (recast)	persistent organic pollu-	:	Not applicable
Regulation (EC) No 649/2012 of ment and the Council concerni of dangerous chemicals		:	Not applicable
REACH - List of substances su (Annex XIV)	bject to authorisation	:	Not applicable
The components of this prod	luct are reported in the fo		wing inventories:
The components of this product are reported in the following inventories: AIIC : On the inventory, or in compliance with the inventory			
DSL	L : All components of this product are on the Canadian DS		

Revision Date:

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NZIoC	:	On the inventory, or in compliance with the inventory
ENCS	:	On the inventory, or in compliance with the inventory
ISHL	:	On the inventory, or in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	All substances listed as active on the TSCA inventory
TECI	:	Not in compliance with the inventory
Volatile organic compounds	:	Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) 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 protection/ face protection/ hearing protection. 		
	Response:P303 + P361 + P353IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.P337 + P313If eye irritation persists: Get medical advice/attention.P370 + P378In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.		
	Storage: P403 + P235 Store in a well-ventilated place. Keep cool.		



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Wash Buffer III (d-WB3)

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	:	Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	:	Not applicable
Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable

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

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

	A SHEET ation (EC) No. 1907/2006			Roche
MagNA Pure				
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Labelling (RE	GULATION (EC) No 1272/2008)			
Not a hazardo	us substance or mixture.			
Lysis/Bindi	ina Buffer			
REACH - Rest	trictions on the manufacture, placing d use of certain dangerous substan and articles (Annex XVII)	•	Conditions of restriction for t lowing entries should be cor Number on list 3	
	didate List of Substances of Very H uthorisation (Article 59).	igh :	alpha-(4-(1,1,3,3- Tetramethylbutyl)phenyl)-on hydroxypoly(oxy-1,2-ethane	
Regulation (E0	C) No 1005/2009 on substances tha e layer	at de- :	Not applicable	
Regulation (El tants (recast)	J) 2019/1021 on persistent organic	pollu- :	Not applicable	
•	C) No 649/2012 of the European Pa Council concerning the export and i chemicals		Not applicable	
REACH - List (Annex XIV)	of substances subject to authorisati	on :	alpha-(4-(1,1,3,3- Tetramethylbutyl)phenyl)-on hydroxypoly(oxy-1,2-ethane For customers in the Europe nomic Area:, Contains SVH tyl/nonylphenol ethoxylates. in research and under contro conditions only, – acc. to An and 3.23 REACH Regulation	diyl) ean Eco- C:, oc- , For use olled rt. 56.3

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 proc	duo	ct are reported in the following inventories:
AIIC	:	On the inventory, or in compliance with the inventory
DSL	:	All components of this product are on the Canadian DSL
NZIoC	:	On the inventory, or in compliance with the inventory
ENCS	:	On the inventory, or in compliance with the inventory
ISHL	:	On the inventory, or in compliance with the inventory



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

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H302 Harmful if swallowed.H314 Causes severe skin burns and eye damage.H412 Harmful to aquatic life with long lasting effects.
Supplemental Hazard Statements	:	EUH032 Contact with acids liberates very toxic gas.
		EUH071 Corrosive to the respiratory tract.
Precautionary statements	:	Prevention:
		P273 Avoid release to the environment.P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
		Response:
		Response: P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
		Response:P301 + P330 + P331IF SWALLOWED: Rinse mouth. DoNOT induce vomiting.P303 + P361 + P353IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
		Response:P301 + P330 + P331IF SWALLOWED: Rinse mouth. DoNOT induce vomiting.P303 + P361 + P353IF ON SKIN (or hair): Take off immedi-



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	POISON CENTER/ doctor.					
Ha	azardous compone	ents which must be listed on the label:				
	593-84-0	guanidinium thiocyanate				
	9002-93-1	alpha-(4-(1,1,3,3-Tetramethylbutyl)phenyl)-omega- hydroxypoly(oxy-1,2-ethanediyl)				

Magnetic Glass Particles

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	: Conditions of restriction for the f lowing entries should be conside Number on list 3	
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: Not applicable	
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable	
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	: Not applicable	
Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	: Not applicable	
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



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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

Labelling (REGULATION (EC) No 1272/2008)

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

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



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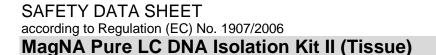
REACH - Candidate List of S Concern for Authorisation (Ar	: Not applicable	
Regulation (EC) No 1005/200 plete the ozone layer	09 on substances that de-	: Not applicable
Regulation (EU) 2019/1021 c tants (recast)	on persistent organic pollu-	: Not applicable
Regulation (EC) No 649/2012 ment and the Council concer of dangerous chemicals	•	: Not applicable
REACH - List of substances s (Annex XIV)	subject to authorisation	: Not applicable
•••		
The components of this pro	•	-
AIIC	: On the inventory, or in	compliance with the inventory
DSL	: All components of this	product are on the Canadian DSI
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 a	is active on the TSCA inventory
TECI	: Not in compliance with	n the inventory
Volatile organic compounds		of 24 November 2010 on industria pollution prevention and control)

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Tissue Lysis/Proteinase K Buffer II

Not applicable



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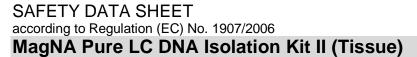
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	REACH - Restrictions on the manufacture, placing or the market and use of certain dangerous substances preparations and articles (Annex XVII)		Not applicable
	REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
	Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	e- :	Not applicable
	Regulation (EU) 2019/1021 on persistent organic pol tants (recast)	llu- :	Not applicable
	Regulation (EC) No 649/2012 of the European Parlia ment and the Council concerning the export and imp of dangerous chemicals		Not applicable
	REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable

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

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

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.





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Proteinase K

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	:	Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	:	Not applicable
Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable

Other regulations:

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

The components of this pro AIIC	duo :	ct are reported in the following inventories: Not in compliance with the inventory
DSL	:	This product contains the following components that are not on the Canadian DSL nor NDSL.
		Proteinase, Tritirachium album serine
NZIoC	:	On the inventory, or in compliance with the inventory
ENCS	:	Not in compliance with the inventory
ISHL	:	Not in compliance with the inventory
KECI	:	Not in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	Product contains substance(s) not listed on TSCA inventory.



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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:P261Avoid breathing dust.P264Wash skin thoroughly after handling.P280Wear protective gloves/ eye protection/ face protection.P284Wear 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:

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39450-01-6
                   Proteinase, Tritirachium album serine
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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.



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H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.
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.
H411	:	Toxic to aquatic life with long lasting effects.
H412	:	Harmful to aquatic life with long lasting effects.
Full text of other abbreviatio	ns	
Acute Tox.	:	Acute toxicity
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Flam. Liq.	:	Flammable liquids
Resp. Sens.	:	Respiratory sensitisation
Skin Corr.	:	Skin corrosion
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitisation
STOT SE	:	Specific target organ toxicity - single exposure

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

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006 MagNA Pure LC DNA Isolation Kit II (Tissue)



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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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