# MACHEREY-NAGEI



## **Safety Data Sheet**

## according to Regulations 1907/2006/EC (REACh) and 2015/830/EU

REF: 740983.250	NucleoSpin Virus (250)	Page: 1/12
Printing date: 14.02.2020	Date of issue: 20.05.2019	

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

SEC	I ION 1: Identification o	t the substance/mixture	and of the company	under
1.1	Product identifier			
	REF	740983.250		
	Product name	NucleoSpin Virus (250)		
	REACH Registration numbe A registration number for	r(s): see SECTION 3.1/3.2 or the substance(s) does not exist because the a	nnual tonnage does not require registratic	on or
	the substance or its use is	s excluded from registration.		
		3 x 0.09-1.0 mg Carrier RNA	A	
		2 x 1.5 mL Liquid Proteinase		
		1 x 125 mL VL		
		1 x 125 mL VW1		
		1 x 50 mL VW2		
		1 x 13 mL RNase-free $H_2$ O		
1.2	Relevant identified uses	of the substance or mixture	and uses advised again	st
	Product for analytical use.			
		Classification according REACh, RIP	3.2 Codes: SU 0-2, PC 21, PROC	; 15, AC 0
	The exposure scena	rio is integrated into sections 1-16.		
	Uses advised against not described			
1.3	Details of the supplier of	the safety data sheet	scientifix	
1.5		the salety tata sheet		
	Manufactured by: MACHEREY-NAGEL GmbH	I & Co. KG	PO Box 662 South Yarra VIC 3141 Australia	Free call: 18 T: +6
	Neumann-Neander-Str. 6-8, Tel.: +49 2421 969 0	52355 Dueren, GERMANY	www.scientifix.com.au	F: +6 E: inf
1.4	Emergency telephone nu	umber		
	Outside Germany (DE): Call DE: Gemeinsames Giftinfor	your regional Poisons Information Semationszentrum (GGIZ)	ervice or call local Life Saving Ser 99089 Erfurt tel. +49 361 730 73	

You find our current versions of SDS (22 languages) in Internet:

## **SECTION 2: Hazard identification**

#### 2.0 Classification of the complete product



WARNING Signal word Hazard identification Hazard classes/categories H226 Flam. Liq. 3 Acute Tox. 4 oral H302 H315 Skin Irrit. 2 H319 Eye Irrit. 2 H336, H335 STOT SE 3

#### 2.1 Classification of the substance or mixture

0.09-1.0 mg Carrier RNA

Do not need labelling as hazardous



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	740983.250 g date: 14.02.2020	NucleoSpin Virus (250) Date of issue: 20.05.2019	Page: 2/12
	Signal word	-	
	No hazard class		
	1.5 mL Liquid Proteinase K		
	Signal word	Do not need labelling as hazardous -	
	No hazard class		
	125 mL VL		
		GHS07	
	Signal word	WARNING	
	Hazard identification	Hazard classes/categories	
	H302 H315 H319	Acute Tox. 4 oral Skin Irrit. 2 Eye Irrit. 2	
	125 mL VW1		
		GHS02 GHS07	
	Signal word	WARNING	
	Hazard identification	Hazard classes/categories	
	H226 H302 H319 H336, H335	Flam. Liq. 3 Acute Tox. 4 oral Eye Irrit. 2 STOT SE 3	
	50 mL VW2		
	Signal word	Do not need labelling as hazardous -	
	No hazard class		
	13 mL RNase-free H <sub>2</sub> O		
	Signal word	Do not need labelling as hazardous -	
	No hazard class		
2.2	Label elements According CLP directive inner pack - 1.5.1.2).	ages must be only labelled with GHS symbol(s) and product identificator(s) (I	EU 1272/2008 Annex I
	Harmful chemicals/mixtures with sig	nal word: WARNING and highly flammable chemicals/mixtures must not be la	abelled with H and P

Harmful chemicals/mixtures with signal word: **WARNING** and highly flammable chemicals/mixtures must not be labelled with H and P phrases **until 125 mL** (EU 1272/2008 Annex I - 1.5.2).

The irritant hazard should be eliminated, because of buffer chemicals inside.



# MACHEREY-NAGEI



## Safety Data Sheet

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### 0.09-1.0 mg Carrier RNA

Do not need labelling as hazardous Signal word: -

### 1.5 mL Liquid Proteinase K

Do not need labelling as hazardous Signal word: -

### 125 mL VL



Signal word: WARNING

### 125 mL VW1



Signal word: WARNING

### 50 mL VW2

Do not need labelling as hazardous Signal word: -

### 13 mL RNase-free H<sub>2</sub> O

Do not need labelling as hazardous Signal word: -

#### 2.3 Other hazards

### Possible hazards from physicochemical properties

In the case of pH values are less than 5 or higher than 9 then it is irritant. Flammable properties. ---

### Information pertaining to particular risks to human and possible symptoms

Cause after oral intake, impairments of health when ingested in small quantities. Kit contains small amounts of enzymes: In liquid form no hazard H334. ---

Information pertaining to particular risks to the environment

Other hazards

## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances or 3.2 Mixtures

#### 0.09-1.0 mg Carrier RNA CAS No.: 26763-19-6 Chemical: carrier RNA Classification: No criteria for classification or naming of chemical not required. TSCA Inventory: listed (CAS 9001-99-4) RTECS: MFCD: 00131937 KE No.: KE-30341 90 - <100 % Concentration: acc. CLP (GHS): The criteria for classification are not fulfilled

ACHEREY-NAGE (MN> ISO 9001 CERTIFIEI

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## according to Regulations 1907/2006/EC (REACh) and 2015/830/EU

REF: 740983.250 Printing date: 14.02.202	20	NucleoSpin Virus ( Date of issue: 20.0	/		Page: 4/1
	iquid Proteinase K				
	Chemical: protein Classification: Formula:	hase <i>K, liquid</i> (origin: tritirachium al H315, Skin Irrit. 2, H319, Eye Irri Enzyme Comm. No. 3.4.21.64, <sub>or</sub>	t. 2, H334, Resp. Sens. 1	CAS No.: 39450-01-6I	
	TSCA Inventory: EC No.:	listed (CAS 102925-54-2) 254-457-8	Indice No.:	647-014-00-9	
	RTECS: KE No.: Concentration:	- not listed 1 - <3 %	MFCD:	00132129	
	acc. CLP (GHS):	The criteria for classification are not fulfille	ed.		
	Chemical: glycer Classification:			CAS No.: 56-81-5	
	Formula: Pseudonym: TSCA Inventory: REACH Reg. No.:	No criteria for classification or naming of C <sub>3</sub> H <sub>8</sub> O <sub>3</sub> glycerin, 1,2,3-propanetriol listed (1,2,3-Propanetriol) 01-2119471987-18-xxxx			
	EC No.: RTECS: KE No.:	200-289-5 MA8050000 KE-29297	Indice No.: MFCD:	n/a 00004722	
	Concentration: acc. CLP (GHS):	50 - <80 % The criteria for classification are not fulfill	ed.		
125 mL '	VL				
	Classification: Formula: Pseudonym: TSCA Inventory:	line hydrochloride H302, Acute Tox. 4 oral, H315, S CH <sub>6</sub> CIN <sub>3</sub> guanidinium chloride listed	Skin Irrit. 2, H319, Eye Irrit	CAS No.: 50-01-1 . 2	
	REACH Reg. No.: EC No.: RTECS: KE No.:	01-2119977063-35-0005 200-002-3 MF4300000 KE-18111	Indice No.: MFCD:	607-148-00-0 00013026	
	Concentration: acc. CLP (GHS):	50 - <66 % H302, Acute Tox. 4 oral, H315, S	Skin Irrit. 2, H319, Eye Irrit	. 2	
125 mL \	VW1				
		line hydrochloride H302, Acute Tox. 4 oral, H315, S CH <sub>6</sub> CIN <sub>3</sub> guanidinium chloride listed 01-2119977063-35-0005	Skin Irrit. 2, H319, Eye Irrit	CAS No.: 50-01-1 . 2	
	EC No.: RTECS: KE No.: Concentration:	200-002-3 MF4300000 KE-18111 36 - <50 %	Indice No.: MFCD:	607-148-00-0 00013026	
	acc. CLP (GHS):	H302, Acute Tox. 4 oral, H319, E	Eye Irrit. 2		
	Chemical: 2-prop Classification: Formula: Pseudonym: TSCA Inventory: REACH Reg. No.:	anol H225, Flam. Liq. 2, H319, Eye In C <sub>3</sub> H <sub>8</sub> O isopropanol, IPA, propan-2-ol listed 01-2119457558-25-XXXX	rit. 2, H336, STOT SE 3	CAS No.: 67-63-0	
	EC No.: RTECS: KE No.: Concentration:	200-661-7 NT8050000 KE-29363 20 - <35 %	Indice No.: MFCD:	603-117-00-0 00011674	
	acc. CLP (GHS):	H226, Flam. Liq. 3, H319, Eye In	rit. 2, H336, STOT SE 3		
50 mL V	W/2				



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REF: 740983.250	NucleoSpin Virus (250)		Page: 5/12
Printing date: 14.02.2020	Date of issue: 20.05.2019		_
Chemical: <i>chem</i> Classification: TSCA Inventory: KE No.: Concentration: acc. CLP (GHS):	icals/mixture < 1% No criteria for classification or naming of chemical not required. all listed, <1% listed 0,1 - <1 % The criteria for classification are not fulfilled.	CAS No.: -	
<b>13 mL RNase-free H</b> <sub>2</sub> <b>O</b> Chemical: <i>water</i> Classification: Formula: TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS):	No criteria for classification or naming of chemical not required. H <sub>2</sub> O listed exempt, Annex IV 231-791-2 ZC0110000 KE-35400 90 - <100 % The criteria for classification are not fulfilled.	CAS No.: 7732-18-5	
3.3 Remarks			

When not listed, mixtures are added with water [CAS No. 7732-18-5] to 100%.

List of H and P phrases: see section 16.1

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

#### 4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitation if necessary. If necessary contact medical advice.

#### 4.1.1 After SKIN Contact

Remove contaminated clothing. Rinse the affected skin or mucous membrane thoroughly under running water. (If possible) use soap

#### 4.1.2 After EYE Contact

After contact with the eyes rinse thoroughly under running water with the eyelid wide open with eye washing bottle, eye douche or running water (protect intact eye).

#### 4.1.3 After INHALATION of vapours

After inhalation of foam or vapour fresh air should be inhaled. Keep airways free. ---

#### 4.1.4 After ORAL Intake

After oral intake lots of water should be drunk after it has been ingested. ---

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

4.3 Indication of any immediate medical attention and special treatment needed No additionally recommendations. ---

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area. All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used.

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

WARNING: Flammable (GHS regulation). May form explosive vapour-air mixtures. Formation of hazardous and caustic vapour-air mixtures possible.

#### 5.3 Advice for firefighters

No, for listed product. Product package burns like paper or plastic.

#### 5.4 Additional information



MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany DE/international: CH: FR: Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 E-mail: sales-ch@mn-net.com E-mail: sales-fr@mn-net.com

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Printing	ng date: 14.02.2020 Date of issue: 20.0	5.2019
SECT	TION 6: Accidental release measures	
6.1	<b>Personal precautions, protective equipment and en</b> Do not breathe vapours. Regular staff training is necessary.	nergency procedures
6.2	Environmental precautions not necessary	
6.3	Methods and material for containment and cleaning Bind any escaping liquid with inert absorbent. Collect small amounts of leaked liquid and flush with water into drain	
6.4	Reference to other sections	
SEC	TION 7: Handling and storage	
7.1	<b>Precautions for safe handling</b> Handling in accordance with the test instruction, that comes with the	product.
7.2	Conditions for safe storage, including any incompa The original product package of MACHEREY-NAGEL allows a safe s Storage class (VCI): 3 Water hazard class (DE): 1	atibilities
7.2.1	Requirements for stock rooms and containers Keep original product packages tightly closed during handling and	nd storage.
7.3	Specific end use(s) Product for analytical use.	
SEC	TION 8: Exposure controls/personal protectio	'n
8.1	Control parameters	
	0.09-1.0 mg Carrier RNA Chemical: carrier RNA	CAS No.: 26763-19-6
	<b>1.5 mL Liquid Proteinase K</b> Chemical: <i>proteinase K, liquid (origin: tritirachium album)</i> SUVA(CH) MAK value: 0,00006 <sub>15min</sub> mg/m <sup>3</sup>	CAS No.: 39450-01-6I
	Chemical: glycerole DNEL: [inh] 56 mg/m <sup>3</sup> DNEL = Derived No-Effect Level (for workers) PNEC(fresh water): 0.885 mg/L PNEC = Predicted No Effected Concentration TRGS 900 (DE): 200 E mg/m <sup>3</sup> E/e respirable Short-term exposure factor: 2 (1), Y skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh	CAS No.: 56-81-5
	SUVA(CH) MAK value: 50 e* mg/m <sup>3</sup>	
	Chemical: guanidine hydrochloride DNEL: [inh] 3.5 mg/m <sup>3</sup> DNEL = Derived No-Effect Level (for workers) PNEC(fresh water): - PNEC = Predicted No Effected Concentration NIOSH: not listed	CAS No.: 50-01-1
	[TWA] Time-weighted average to a reference period of 8 hours, [STEL] OSHA: not listed	Short-term exposure limit related to a 15-minute period
	125 mL VW1	CAS No.: 50-01-1
	Chemical: guanidine hydrochloride DNEL: [inh] 3.5 mg/m <sup>3</sup> DNEL = Derived No-Effect Level (for workers) PNEC(fresh water) : -	www.mr

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## according to Regulations 1907/2006/EC (REACh) and 2015/830/EU

<ul> <li>Yes, gloves according EN 374 (permeation time &gt;30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansel or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.</li> <li><b>Eye protection</b> Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection.</li> <li><b>Skin protection</b> Not necessary.</li> <li><b>Personal hygiene</b> Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.</li> <li><b>SECTION 9: Physical and chemical properties</b></li> </ul>		0983.250	NucleoSpin Virus (	,	Page: 7/12
NIOSH:       not listed         ITWA Three-watering are ender to a the fours, [STEL] Short-term exposure init related to a 15-minute period         OSHA:       not listed         Chemical:       2-propared         CAS No:: 67-63-0         Differ:       140.9 mg/s         PNEC period       200 ppm / 500 mg/m²         PNEC period       200 ppm / 500 mg/m²         PNEC period       200 ppm / 500 mg/m²         TRGS 500 (DE):       200 ppm / 500 mg/m²         Tress 500 (DE):       200 ppm / 500 mg/m²         Tress 500 (DE):       200 ppm / 500 mg/m²         Tress 500 (DE):       200 ppm / 900 mg/m²         Chemical:       relemination in the room, floor resistant to chemicals with floor drainage and washing facilities. The highest level of cleantines         So mL VW2       CAS No :: 7732-18-5         Cas       Respiratory protection         Na editional recommendations.       CAS No :: 7732-18-5         Cas	Printing	date: 14.02.2020	Date of issue: 20.0	5.2019	
[TWA] These weighted sensings to a reference protoci of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period         OSH::::::::::::::::::::::::::::::::::::		PNEC = Predicted No Effe	ted Concentration		
OSHA:     not listed       CAS No:: 67-83-0       DREL:     Desc.: Section of the sectin of the section of the section of the section of the section of				Short term expective limit related to a 15 minute pa	riad
DNEL:       Devined No-Effect Lew View rowshees         DNEC (not noted):       140.9 mg/L PNEC (not noted):         TRGS 000 (DE):       200 ppm / 500 mg/m³ Evropable         Short-term exposure factor:       2 (1), Y         TRGS 003 (DE):       2 00 ppm / 500 mg/m³ Evropable         Short-term exposure factor:       2 (1), Y         RGS 003 (DE):       2 00 ppm / 500 mg/m³ Evropable         SUVA/CH) MAK value:       2 00 ppm / 500 mg/m³ (TVA) 400 ppm / 900 mg/m³ (TVA) 400 ppm / 980 mg/m³         NICSH:       TTWA 1400 ppm / 980 mg/m³ (TVA) 400 ppm / 980 mg/m³         S0 mL VV2 Chemical:       chemicals/mixture < 1%				Short-term exposure limit related to a 15-minute per	100
DNEL:       Devined No-Effect Lew View rowshees         DNEC (not noted):       140.9 mg/L PNEC (not noted):         TRGS 000 (DE):       200 ppm / 500 mg/m³ Evropable         Short-term exposure factor:       2 (1), Y         TRGS 003 (DE):       2 00 ppm / 500 mg/m³ Evropable         Short-term exposure factor:       2 (1), Y         RGS 003 (DE):       2 00 ppm / 500 mg/m³ Evropable         SUVA/CH) MAK value:       2 00 ppm / 500 mg/m³ (TVA) 400 ppm / 900 mg/m³ (TVA) 400 ppm / 980 mg/m³         NICSH:       TTWA 1400 ppm / 980 mg/m³ (TVA) 400 ppm / 980 mg/m³         S0 mL VV2 Chemical:       chemicals/mixture < 1%		Chamical: 2 proposal		CAS No - 67 62	0
<ul> <li>PNEC (mean start): 140.9 mg/L. PNEC (mean start): 200 ppm / 500 mg/m<sup>2</sup> Everypinable</li> <li>Short-term exposure factor: 2 (11), Y ann exaptive (1), reginable started (3a), skin sensitizable (5k), teratogenic (2) not securely excluded / (Y) certainly excluded SUVA(CH) MAK value: 200 ppm / 500 mg/m<sup>2</sup> TROS 500 (DE): Academ Bib. Ubi [25 mg/L the start of the start of the</li></ul>		DNEL:	[inh] 500 mg/m <sup>3</sup>	CAS NO.: 67-63-	0
TRGS 900 (DE):       200 ppm / 500 mg/m <sup>2</sup> Ber resprinter         Short-term exposure factor:       2 (I), Y         sen resprinter       200 ppm / 500 mg/m <sup>2</sup> TRGS 903 (DE):       (Actor BA): UB) 2 mg/L         Ber Sen Status (Sh), sin sensitizate (Sh), sin sensitizate (Sh), territogenic (2) not securely excluded / (Y) certainly excluded         NIOSH:       (Pack BA): UB):         TRGS 903 (DE):       (Actor BA): UB): 28 mg/L         Be Sock U and W a					
Ele régistrate         Short-term exposure factor:       2(1), Y         sin resortive (H), respiratory sensitizable (Sa), sin assistizable (Sb), teratogenic (2) not securely excluded / (f) certainly excluded         SUVA(CH) MAK value:       200 pm / 500 mg/m²         TRGS 903 (DE):       [Pactorn BA, Ub] 25 mg].         A control (CH) MAK value:       200 pm / 500 mg/m²         NIOSH:       [TWA] 400 pm / 920 mg/m²         OSHA:       [TWA] 400 pm / 920 mg/m²         OSHA:       [TWA] 400 pm / 920 mg/m²         S0 mL VW2       Chemical: chemicals/mixture < 1%					
start rescriptive (H), respiratory sensitization (Sa), start sensitization (Sa), terningencic (2) not securely excluded (Y) certainly excluded         SUVAC(H) MAX value:       200 ppm / 500 mg/m²         ITRGS 903 (DE):       Index of the initiation, and or exposition or shift         NIOSH::       TWAI Time-weighted average to a inference period of 8 hours, (STEL) Short-term exposure limit related to a 15-minute period         OSHA:       (TWAI Time-weighted average to a inference period of 8 hours, (STEL) Short-term exposure limit related to a 15-minute period         S0 mL VW2       Chemical:       cAS No.: -         13 mL RNase-free H <sub>2</sub> O       CAS No:: 7732-18-5         3.2       Exposure controls       CAS No:: 7732-18-5         Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities. The highest level of cleantineses must be maintained at the workplace.         3.2.1       Respiratory protection       No additional recommendations.         3.2.2       Hand protection       Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansel or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.         3.2.3       Eye protection       Yes, safety glasses according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansel or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.		TRGS 900 (DE).			
TRGS 003 (DE):       [Aceion Bb, Ub) [25 mg, U. Bubbod, Uuries a lonimation, beind of expedition or shift         NIOSH:       (TWA) 100 ppm / 1980 mg/m <sup>3</sup> NIOSH STEL:         NIOSH STEL:       (TWA) 400 ppm / 1980 mg/m <sup>3</sup> CAS NO::       (TWA) 100 ppm / 1980 mg/m <sup>3</sup> S0 mL WW2       CAS No:: -         Chemical:       ohemicals/mixture < 1%				, teratogenic (Z) not securely excluded / (Y) certainl	y excluded
B block. U urine, a "no limitation, b and of exposition or shift     NIOSH: IFUK] 400 ppm / 1225 mg/m <sup>2</sup> IfVA] Time-weighted averance is a treference period of 8 hours. [STEL] Short-term exposure limit related to a 15-minute period     OSHA: [TWA] 400 ppm / 980 mg/m <sup>2</sup> SO nL WW2     Chemical: chemicals/mixture < 1% CAS No.: -     33 mL RNase-free H <sub>2</sub> O     Chemical: water     CAS No.: -     CAS No.: -     CAS No.: -     Society of cleaniness must be maintained at the workplace.     Society of cleaniness must be maintained at the workplace.     Society of cleaniness must be maintained at the workplace.     Society of cleaniness must be maintained at the workplace.     Society of cleaniness must be maintained at the workplace.     Society of the soc					
NICSH STEL:       500 ppm / 1225 mg/m²         ITWAJ Time-weighted averaging to a reference period of 8 hours. (STEL] Short-term exposure limit related to a 15-minute period         OSHA:       (TWA] 400 ppm / 980 mg/m²         S0 mL VW2       Chemical:       chemicals/mixture < 1%		TRGS 903 (DE):		exposition or shift	
TW4] Time-weighted average to a feterance period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period         OSHA:       [TWA] 400 ppm / 980 mg/m <sup>2</sup> S0 mL WW2       Chemical:       chastic structure < 1%					
So mL VW2 Chemica:       CAS No.: -         13 mL RNase-free H; O Chemica:       CAS No.: -         2.13 mL RNase-free H; O Chemica:       CAS No.: 7732-18-5         3.2       Exposure controls Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities. The highest level of cleanliness must be maintained at the workplace.         3.2.1       Respiratory protection No additional recommendations.         3.2.2       Hand protection Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansel or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.         3.2.3       Eye protection Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection.         3.2.4       Skin protection Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection.         3.2.4       Skin protection Wot necessary.         3.2.5       Personal hygien Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rines any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.         SECTION 9: Physical and chemical properties       Odor: odorless         0.99-1.0 mg Carrier RNA Appearance: solid (lyoph)       Colour: colourless       Odor: odorless		[TWA] Time-weighted aver	age to a reference period of 8 hours, [STEL]	Short-term exposure limit related to a 15-minute per	riod
Chemical:       chemicals/inixture < 1%		OSHA:	[1 WA] 400 ppm / 980 mg/m <sup>3</sup>		
13 mL RNase-free H <sub>2</sub> O       CAS No.: 7732-18-5         3.2       Exposure controls Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities. The highest level of cleanliness must be maintained at the workplace.         3.2.1       Respiratory protection No additional recommendations.         3.2.2       Hand protection Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansel or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.         3.2.3       Eye protection Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection.         3.2.4       Skin protection Not necessary.         3.2.5       Personal hygien Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.         SECTION 9: Physical and chemical properties       0.99-1.0 mg Carrier RNA Appearance: solid (lyoph.)         Appearance: liquid       Colour: colourless       Odor: odorless         pH:       7-8 Specific gravity:       1.1 g/cm <sup>3</sup> Solubility in water:       0.100 %					
Chemical: water CAS No: 7732-18-5 3.2 Exposure controls Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities. The highest level of cleanliness must be maintained at the workplace. 3.2.1 Respiratory protection No additional recommendations. 3.2.2 Hand protection Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansel or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1. 3.2.3 Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection. 3.2.4 Skin protection Not necessary. 3.2.5 Personal Hygiane Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak if in water. Wash hands throroughly with soap and water when stopping work and before eating, and then apply protective skin cream. 3.2.5 Oug-1.0 mg Carrier RNA Appearance: solid (lyoph.) Colour: colourless Odor: odorless D.09-1.0 mg Carrier RNA Appearance: solid (lyoph.) Colour: colourless Odor: odorless D.09-1.0 mg Carrier RNA Appearance: solid (lyoph.) Ta glorm <sup>3</sup> Solubility in water: 0-100 %		Chemical: <i>chemicals/mix</i>	ure < 1%	CAS No.: -	
<ul> <li>8.2 Exposure controls Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities. The highest level of cleanliness must be maintained at the workplace.</li> <li>8.2.1 Respiratory protection No additional recommendations.</li> <li>8.2.2 Hand protection Yes, gloves according EN 374 (permeation time &gt;30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansel or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.</li> <li>8.2.3 Eye protection Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection.</li> <li>8.2.4 Skin protection Not necessary.</li> <li>8.2.5 Personal hygiene Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rins any other the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.</li> <li>8.2.5 Odor: odorless</li> <li>9.1 Information on basic physical and chemical properties</li> <li>0.09-10 mg Carrier RNA Appearance: solid (lyoph.) Colour: colourless Odor: odorless</li> <li>1.5 mL Liquid Proteinase K Appearance: ilquid Colour: colourless Odor: odorless</li> <li>9.7.4 Specific gravity: 1.1 g/cm<sup>3</sup> Solubility in water: 0.100 %</li> <li>125 mL VL</li> </ul>					
Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities. The highest level of cleanliness must be maintained at the workplace.         8.2.1       Respiratory protection No additional recommendations.         3.2.2       Hand protection Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansel or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.         3.2.3       Eye protection Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection.         3.2.4       Skin protection Not necessary.         3.2.5       Personal hygiene Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.         SECTION 9: Physical and chemical properties         0.99-1.0 mg Carrier RNA Appearance: solid (lyoph.)       Colour: colourless       Odor: odorless         9.1       Information on basic physical and chemical properties opering gravity:       0.1 of gravity:         1.5 mL Liquid Proteinase K Appearance: liquid       Colour: colourless       Odor: odorless         pH:       7-8 Specific gravity:       1.1 g/cm³ Solubility in water:       0.100 % <td></td> <td>Chemical: water</td> <td></td> <td>CAS No.: 7732-1</td> <td>18-5</td>		Chemical: water		CAS No.: 7732-1	18-5
No additional recommendations.         3.2.1       Hand protection Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansel or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.         3.2.3       Eye protection Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection.         3.2.4       Skin protection Not necessary.         3.2.5       Personal hygiene Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.         SECCTION 9: Physical and chemical properties       Odor: odorless         0.09-1.0 mg Carrier RNA Appearance: solid (lyoph.)       Colour: colourless       Odor: odorless         1.5 mL Liquid Proteinase K Appearance: liquid       Colour: colourless 7-8 Specific gravity:       Odor: odorless         9H:       7-8 Specific gravity:       1.1 g/cm <sup>3</sup> Solubility in water:       Odor: odorless         125 mL VL       Into VL       Into water:       Into water:	8.2.1	level of cleanliness must be main		chemicals with floor drainage and washin	g facilities. The highest
Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansel or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.         32.3       Eye protection Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection.         32.4       Skin protection Not necessary.         32.5       Personal hygiene Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.         SECETION 9: Physical and chemical properties         0.09-1.0 mg Carrier RNA Appearance: solid (lyoph.)       Colour: colourless       Odor: odorless         1.5 mL Liquid Proteinase K Appearance: iliquid       Colour: colourless       Odor: odorless         pH:       7-8 Specific gravity:       1.1 g/cm <sup>3</sup> Solubility in water:       Odor: odorless         125 mL VL        0.100 %       125 mL VL			ns.		
Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection. 3.2.4 Skin protection Not necessary. 3.2.5 Personal hygiene Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream. SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical properties 9.1 Colour: colourless Odor: odorless 9.1 Information on basic physical and colour colourless Odor: odorless 9.1 Information on basic physical and colour colourless Odor: odorless 9.1 Information on basic physical and p	8.2.2	Yes, gloves according EN 37			, or Nitril (f.ex. from Ansel
Not necessary.         3.2.5       Personal hygiene Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.         SECTION 9: Physical and chemical properties         9.1       Information on basic physical and chemical properties         0.09-1.0 mg Carrier RNA Appearance: solid (lyoph.)       Colour: colourless       Odor: odorless         1.5 mL Liquid Proteinase K Appearance: liquid       Colour: colourless       Odor: odorless         pH:       7-8 Specific gravity:       1.1 g/cm <sup>3</sup> 0-100 %         125 mL VL       Into WL       Into WL	8.2.3		g EN 166 with integrated side shiel	ls or wrap-around protection.	
Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.         SECTION 9: Physical and chemical properties         0.1       Information on basic physical and chemical properties         0.99-1.0 mg Carrier RNA         Appearance: solid (lyoph.)       Colour: colourless       Odor: odorless         1.5 mL Liquid Proteinase K       Odor: odorless         pH:       7-8       Specific gravity:         Solubility in water:       0-100 %         125 mL VL       125 mL VL	8.2.4	•			
9.1       Information on basic physical and chemical properties         0.09-1.0 mg Carrier RNA       Appearance: solid (lyoph.)         Colour: colourless       Odor: odorless         1.5 mL Liquid Proteinase K       Appearance: liquid         Appearance: liquid       Colour: colourless         pH:       7-8         Specific gravity:       1.1 g/cm³         Solubility in water:       0-100 %	8.2.5	Eating, drinking, smoking, tal with the skin, eyes and clothi	ng. Rinse any clothing on which the	substance has been spilled, and soak it i	n water. Wash hands
0.09-1.0 mg Carrier RNA Appearance: solid (lyoph.)       Colour: colourless       Odor: odorless         1.5 mL Liquid Proteinase K Appearance: liquid       Colour: colourless       Odor: odorless         pH:       7-8 Specific gravity:       1.1 g/cm³ 0-100 %       Odor: odorless         125 mL VL       125 mL VL       VL	SECT	ION 9: Physical and ch	emical properties		
Appearance: solid (lyoph.)       Colour: colourless       Odor: odorless <b>1.5 mL Liquid Proteinase K</b> Appearance: liquid       Colour: colourless       Odor: odorless         PH:       7-8       7-8         Specific gravity:       1.1 g/cm³       Olour: 00 %         125 mL VL       VL       Description	9.1	Information on basic phy	sical and chemical proper	ies	
Appearance: liquid       Colour: colourless       Odor: odorless         pH:       7-8         Specific gravity:       1.1 g/cm³         Solubility in water:       0-100 %			Colour: colourless	Odor: odorless	
pH: 7-8 Specific gravity: 1.1 g/cm³ Solubility in water: 0-100 % 125 mL VL		· · · · · ·			
Specific gravity:       1.1 g/cm³         Solubility in water:       0-100 %         125 mL VL       0.000 %				Odor: odorless	
		Specific gravity:	1.1 g/cm <sup>3</sup>		
			Colour: colourless	Odor: odorless	
					www.mn-ne



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## according to Regulations 1907/2006/EC (REACh) and 2015/830/EU

REF: 74	10983.250	NucleoSpin Virus (2	250)	Page: 8/12
Printing date: 14.02.2020		Date of issue: 20.0	5.2019	
	pH: Specific gravity:	4.5-5.2 1.18 g/cm³		
	<b>125 mL VW1</b> Appearance: liquid pH: Flash point: Specific gravity:	Colour: colourless 7-8 25 °C 1.06 g/cm³	Odor: alcoholic	
	<b>50 mL VW2</b> Appearance: liquid pH: Specific gravity:	Colour: colourless 7-8 1.00 g/cm³	Odor: odorless	
	<b>13 mL RNase-free H</b> 2 <b>O</b> Appearance: liquid pH: Specific gravity:	Colour: colourless 6-8 1.0 g/cm³	Odor: odorless	

Data for the other parameters of the mixtures are not available, because no registration and no chemical safety report is required. **Relevant Properties of Substance Group** 

## **SECTION 10: Stability and reactivity**

10.1 Reactivity

no further data available.

- 10.2 **Chemical stability**
- No known instability.
- 10.3 Possibility of hazardous reactions Note: Can form very reactive substances with oxidizing agents. No further data available.
- 10.4 Conditions to avoid

#### 10.5 Incompatible materials

Avoid contact with strong acids or alkalines.

#### 10.6 Hazardous decomposition products

In the original package all parts/all reagents are safety and separated stored. Decompositions are not observed during the expiration period under recommended conditions.

## SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Following information is valid for pure substances. Quantitative data on the toxicity of this product are not available.

### 0.09-1.0 mg Carrier RNA

Chemical:	carrier RNA	CAS No.: 26763-19-6
TSCA Inventory:	listed (CAS 9001-99-4)	
Japan CSCL/PRTR:	not listed, Japan PDSCL: not listed	
Japan ISHL:	not listed	
Korea Exist.Chem.In	ventory: KE-30341	

### 1.5 mL Liquid Proteinase K

-			
Chemical:	proteinase K, liquid (origin: triti	rachium album)	CAS No.: 39450-01-6I
TSCA Inventory:	listed (CAS 102925-54	-2)	
Japan CSCL/PRTR:	not listed	,	
Japan ISHL:	not listed		
Korea Exist Chem Inv	entory: not listed		



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## according to Regulations 1907/2006/EC (REACh) and 2015/830/EU

REF: 740983.250		cleoSpin Virus (250)	Page: 9/1
Printing date: 14.02.2020	Da	e of issue: 20.05.2019	
Chemical: TSCA Inventory:	<i>glycerole</i> listed (1,2,3-Propa	CAS No.: 56-81-5	
Exposure Routes:	inhalation, skin and		
Target Organs:		tory system, kidneys	
Symptoms:		, respiratory system; headache, nausea, vomiting; kidney injury	
Japan CSCL/PRTR:		DSCL: not listed	
Japan ISHL: Korea Exist.Chem.In	not listed		
LD50 <sub>orl rat</sub> :	12.6 g/kg		
LD50 <sub>drm rbt</sub> :	>18.7 g/kg		
TRGS 905 (DE):	RFC		
<b>125 mL VL</b> Chemical:	guanidine hydrochloride	CAS No.: 50-01-1	
TSCA Inventory:	listed	California Proposition 65 List: not listed	
Australia NICNAS:	not listed	Canada CEPA 1999: DSL yes	
Japan CSCL/PRTR:	not listed, Japan P		
Japan ISHL:	not listed		
South Korea TCCA:	not listed		
Korea Exist.Chem.In LD50 <sub>orl rat</sub> :	475-907 mg/kg		
LC50 <sub>ihl rat</sub> :	[4h] 3181-7655 µg	′m³	
LD50 <sub>drm rbt</sub> :	2000 mg/kg		
Acute Effects: Cause	e after oral intake, impairme	nts of health when ingested in small quantities.	
125 mL VW1			
Chemical:	guanidine hydrochloride	CAS No.: 50-01-1	
TSCA Inventory:	listed	California Proposition 65 List: not listed	
Australia NICNAS: Japan CSCL/PRTR:	not listed not listed, Japan P	Canada CEPA 1999: DSL yes	
Japan ISHL:	not listed	BOOL. Not listed	
South Korea TCCA:	not listed		
Korea Exist.Chem.In			
LD50 <sub>orl rat</sub> :	475-907 mg/kg		
LC50 <sub>ihl rat</sub> : LD50 <sub>drm rbt</sub> :	[4h] 3181-7655 µg 2000 mg/kg	m°	
Acute Effects: Cause		nts of health when ingested in small quantities.	
Chemical:	2-propanol	CAS No.: 67-63-0	
TSCA Inventory:	listed	California Proposition 65 List: not listed	
ACGIH: Exposure Routes:	1230 ppm	n, skin and/or eye contact	
Target Organs:	Eyes, skin, respira		
Symptoms:		e, throat; drowsiness, dizziness, headache; dry cracking skin; in a	animals: narcosis
Australia NICNAS:	•	Canada CEPA 1999: DSL yes	
Japan CSCL/PRTR:			
Japan ISHL: South Korea TCCA:	listed ≥1,0%/≥0,1%	o, Article 57-2 (SDS required)	
Korea Exist.Chem.In	ventory: KF-29363		
LD50 <sub>orl rat</sub> :	5045 mg/kg		
LC Low <sub>orl hmn</sub> :	3570 mg/kg		
LC50 <sub>ihl rat</sub> :	16 <sub>4h</sub> g/m³		
LD50drm rbt :	12.8 g/kg		
TRGS 905 (DE):	R <sub>F</sub> C		
50 mL VW2			
Chemical:	chemicals/mixture < 1%	CAS No.: -	
TSCA Inventory: Korea Exist.Chem.In	all listed, <1%		
NOICA EXISLOIICIII.III	ventory. IIsteu		
			www.mn-ne



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# according to Regulations 1907/2006/EC (REACh) and 2015/830/EU

0983.250 date: 14 02 2020	NucleoSpin Virus (250) Date of issue: 20 05 2019		Page: 10/1
	Date 6113500. 20.00.2015		
Chemical: water TSCA Inventory: liste		CAS No.: 7732-18-5	
ION 12: Ecological inform	ation		
Toxicity			
Following information is valid for p	ure substances.		
0.09-1.0 mg Carrier RNA Chemical: carrier	RNA	CAS No.: 26763-19-6	
<b>1.5 mL Liquid Proteinase K</b> Chemical: protein Water hazard class (DE): Storage class (VCI):	ase K, liquid (origin: tritirachium album) 1 13	CAS No.: 39450-01-6I	
		CAS No.: 56-81-5	
LC50fish/96h: EC50 <sub>daphnia/48h</sub> : IC50scenedesmus quadricauda/72 EC10 <sub>pseudomonas</sub> putita/16h: Water hazard class (DE):	>5000 <sub>24h</sub> mg/L >10 <sub>24h</sub> g/L h: IC5 <sub>7d</sub> >10 g/L EC5: >10 g/L 0		
PNEC <sub>(fresh water)</sub> :	-	CAS No.: 50-01-1	
LC50leuciscus idus/96h : LC50fish/96h : EC50daphnia/48h : EC10pseudomonas putita/16h : Water hazard class (DE): Storage class (VCI):	1759 mg/L [4d] 690-1850; [48h] 1758-2420 mg/L 70.2 mg/L [72h] 11.8-33.5 mg/L 1 WGK No.: 0788 12		
		CAS No.: 50-01-1	
LC50leuciscus idus/96h : LC50lfish/96h : EC50daphnia/48h : EC10pseudomonas putita/16h : Water hazard class (DE): Storage class (VCI):	1759 mg/L [4d] 690-1850; [48h] 1758-2420 mg/L 70.2 mg/L [72h] 11.8-33.5 mg/L 1 WGK No.: 0788 12		
		CAS No.: 67-63-0	
LC50fish/96h : EC50 <sub>daphnia/48h</sub> : IC50 <sub>scenedesmus</sub> quadricauda/72 EC10 <sub>pseudomonas</sub> putita/16h : Water hazard class (DE):	1400 mg/L 13.3 g/L h : >1000 mg/L EC5: 1050 mg/L 1 WGK No.: 0135		
	date: 14.02.2020 <b>13 mL RNase-free H</b> <sub>2</sub> <b>O</b> Chemical: water TSCA Inventory: Iste Korea Exist.Chem.Inventory: KE- <b>ION 12: Ecological inform</b> <b>Toxicity</b> <b>Following information is valid for pr</b> <b>0.09-1.0 mg Carrier RNA</b> Chemical: carrier <b>1.5 mL Liquid Proteinase K</b> Chemical: protein Water hazard class (DE): Storage class (VCI): Chemical: glycerce PNEC (fresh water) : PNEC = Predicted No Effected Cond LC50fish/96h : EC50daphnia/48h : IC50scenedesmus quadricauda/72 EC10pseudomonas putita/16h : Water hazard class (DE): Dispersion coefficient(octanol- Storage class (VCI): <b>125 mL VL</b> Chemical: guanid PNEC (fresh water) : PNEC = Predicted No Effected Cond LC50fish/96h : EC50daphnia/48h : EC10pseudomonas putita/16h : Water hazard class (DE): Storage class (VCI): <b>125 mL VL</b> Chemical: guanid PNEC = Predicted No Effected Cond LC50fish/96h : EC50daphnia/48h : EC10pseudomonas putita/16h : Water hazard class (DE): Storage class (VCI): <b>125 mL WI</b> Chemical: guanid PNEC = Predicted No Effected Cond LC50fish/96h : EC50daphnia/48h : EC10pseudomonas putita/16h : Water hazard class (DE): Storage class (VCI): <b>125 mL WI</b> Chemical: guanid PNEC (fresh water) : PNEC = Predicted No Effected Cond LC50fish/96h : EC50daphnia/48h : EC10pseudomonas putita/16h : Water hazard class (DE): Storage class (VCI): <b>125 mL WI</b> Chemical: 2-prope PNEC = Predicted No Effected Cond LC50fish/96h : EC50daphnia/48h : EC10pseudomonas putita/16h : Water hazard class (DE): Storage class (VCI): Chemical: 2-prope	date: 14.02.2021 Determinants: 20.05.2019 <b>13 mL RNass-free H_2 O</b> Chemical: water TSC humical: water Store Exist Chem. Inventory: KE-35400 <b>Constitution:</b> Isted Korea Exist Chem. Inventory: KE-35400 <b>Constitution:</b> State of the substances. <b>0.99-1.0 mg Carrier RNA</b> <b>Differential:</b> carrier RNA <b>1.5 mL Liquid Proteinase K</b> Chemical: proteinase K, <i>liquid (origin: tritirachium album)</i> Water hazard class (DE): 1 Storage class (VCI): 13 Chemical: glycerole PNEC (fresh water): PNEC (fresh water): PNEC = Predicted No Effected Concentration PNEC = Predicted No Effected Concentration Dispersion coefficient(octanol-water): 1.76 Storage class (VCI): 10 <b>125 mL VI</b> Chemical: gluanidine hydrochloride PNEC (fresh water): PNEC (fresh water): Cool Dispersion coefficient(octanol-water): 1.76 Storage class (VCI): 10 <b>125 mL VI</b> Chemical: gluanidine hydrochloride PNEC (fresh water): Cool Dispersion coefficient(octanol-water): 1.76 Storage class (VCI): 10 <b>125 mL VI</b> Chemical: gluanidine hydrochloride PNEC (fresh water): PNEC (	date: 14.02.2020     Date of fissue: 20.05.2019       13 mL RNase-free H; 0     CAS No: 7732-18-5       Chemical:     water       TSCA Inventory:     listed       Korea Exist.Chem.Inventory: KE:35400     CAS No: 7732-18-5       CON 12: Ecological information       Toxicity       Following information is valid for pure substances.       0.09-10 mg Carrier RNA       CAS No: 26763-19-6       1.5 mL Liquid Proteinase K. Iiquid (origin: tritirachium album)       CAS No: 39450-01-61       Using a case (VCI):       1.3       Chemical: proteinase K. Iiquid (origin: tritirachium album)       CAS No: 366-81-5       CAS No: 56-81-5       CAS No: 56-81-5       PMEC grass water):       Colspan="2">CAS No: 56-81-5       CAS No: 56-81-5       CAS No: 56-81-5       CAS No: 56-81-5       PMEC grass water):       Colspan="2">CAS No: 50-01-1       COlspan="2">CAS No: 50-01-1       CAS No: 50-01-1       CAS No: 50-01-1       CAS No: 50-01-1       CAS No: 50-01-1       COntractical Case (CPE):



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## according to Regulations 1907/2006/EC (REACh) and 2015/830/EU

REF: 7	40983.250 Nucleo	Spin Virus (250) Page: 11/12
Printing	g date: 14.02.2020 Date o	f issue: 20.05.2019
	<b>50 mL VW2</b> Chemical: chemicals/mixture < 1% Water hazard class (DE): 1 Storage class (VCI): 12-13	CAS No.: -
	<b>13 mL RNase-free H</b> <sub>2</sub> <b>O</b> Chemical: <i>water</i>	CAS No.: 7732-18-5
12.2	Persistence and degradability not necessary	
12.3	Bioaccumulative potential not necessary	
12.4	Mobility in soil not necessary	
12.5	Results of PBT and vPvB assessment no data available	
12.6	Other adverse effects	

### SECTION 13: Disposal considerations

Please observe local regulations for collection and disposal of hazardous waste and contact waste disposal company, where you will obtain information on laboratory waste disposal (waste code number 16 05 06).

#### 13.1 Waste treatment methods

Normally it is possible to empty small amounts (diluted!) into drains.

## **SECTION 14: Transport information**

14.1 UN number: 14.3 Class:		UN proper shipping n Packing group: III	name: Flammable liquid, n.o.s. (2-propanol mixture)
Road transport			
Classification code:	F1		
Limited Quantity:	5 L	Tunnel restriction cod	de: E
Excepted Quantity:	E 1	Special instructions:	640E
Air transport			
PAX:	355	max. weight PAX:	60 L
CAO:	366	max. weight CAO:	220 L
Maritime transport			
EmS:	F-E, S-E	Storage category:	A

#### 14.5 **Environmental hazards**

none, contains only small quantities of hazardous substances

#### 14.6 Special precautions for user

not necessary

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code not applicable

## **SECTION 15: Regulatory information**

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

German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on August 2013 German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung -GefStoffV), revised on November 2010, according to Directive 98/24/EC TRGS 200, German engineering rules governing the classification and labelling of hazardous substances, preparations and products,

updated October 2011 MN Leaflet/User manual, also see www.mn-net.com

Look for your country-specific regulations.



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#### 15.2 Chemical safety assessment

not necessary for these small amounts ---

### **SECTION 16: Other information**

#### 16.1 List of H and P phrases

16.1.1 List of relevant H phrases

	H226	Flammable liquid and vapour.
	H302	Harmful if swallowed.
	H315	Causes skin irritation.
	H319	Causes serious eye irritation.
	H336	May cause drowsiness or dizziness.
16.1.2	List of relevan	it P phrases
16.1.2	List of relevan P210	It P phrases Keep away from heat/sparks/open flames/hot surfaces. No smoking.
16.1.2		
16.1.2	P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
16.1.2	P210 P260D	Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not breathe vapours.

Rinse mouth.

P301+312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P330

#### 16.2 **Training advice**

1

Regular safety training.

#### 16.3 Recommended restriction on use

Only for professional user.

An individual package of this product or test kit has a moderate hazardous potential.

#### 16.4 Further information

MACHEREY-NAGEL GmbH & Co. KG provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

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#### 16.5 Sources of key data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS Regulation 487/2013/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress Regulation 669/2018/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress Regulation 1480/2018/EU, 4th adaptation of CLP regulation to technical and scientific progress TRGS 900, German engineering rules governing limits in air at work, updated 03/2019 SUVA .CH, Limits in air at work 2009, revised on 01.2009 Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances) KÜHN. BIRETT

### **Revisions/Updates**

Reason for Revision: 2016-03 Adaptation of regulation 1221/2015/EU 2017-11 Adaption of ECHA Registration dossier

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