MACHEREY-NAGEI



Safety Data Sheet

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

REF: 740983.50	NucleoSpin Virus (50)	Page: 1/12
Printing date: 12.05.2021	Date of issue: 09.11.2020	

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

1.1	Product identifier	
1.1	REF Product name	740983.50 NucleoSpin Virus (50)
	REACH Registration number(s):	see SECTION 3.1/3.2 or stance(s) does not exist because the annual tonnage does not require registration or
		2 x 0.09-1.0 mg Carrier RNA 1 x 600 μ L Liquid Proteinase K 1 x 25 mL VL 1 x 30 mL VW1 1 x 12 mL VW2 1 x 13 mL RNase-free H ₂ O
1.2	Relevant identified uses Product for analytical use. Exposure Scenario Classifi	e substance or mixture and uses advised against cation according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0 itegrated into sections 1-16.
1.3	Details of the supplier of the s Manufactured by: MACHEREY-NAGEL GmbH & Co. Valencienner Str. 11, 52355 Düren Tel.: +49 2421 969 0	KG
1.4	Emergency telephone numbe Outside Germany (DE): Call your r DE: Gemeinsames Giftinformation:	egional Poisons Information Service or call local Life Saving Service.
	You find our current versions of SDS (22 la	nguages) in Internet: http://www.mn-net.com/SDS

SECTION 2: Hazard identification

2.0 Classification of the complete product



Signal word WARNING 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



Version: M V 4.12.0 E-mail: info@mn-net.com

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	Signal word	-	
	No hazard class		
	600 µL Liquid Proteinase K		
	Signal word	Do not need labelling as hazardous -	
	No hazard class		
	25 mL VL		
		\wedge	
	Signal word	GHS07 WARNING	
	Hazard identification		
	H302	Hazard classes/categories Acute Tox. 4 oral	
	H315 H319	Skin Irrit. 2 Eye Irrit. 2	
	30 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	
	12 mL VW2		
	Signal word	Do not need labelling as hazardous -	
	No hazard class		
	13 mL RNase-free H ₂ 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) (EU 1272/2008 Annex
	Harmful chemicals/mixtures with sign	nal word: WARNING and highly flammable chemicals/mixtures must not be I	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.



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0.09-1.0 mg Carrier RNA

Do not need labelling as hazardous Signal word: -

600 µL Liquid Proteinase K

Do not need labelling as hazardous Signal word: -

25 mL VL



Signal word: WARNING

30 mL VW1



Signal word: WARNING

12 mL VW2

Do not need labelling as hazardous Signal word: -

13 mL RNase-free H₂ 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 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 CAS No.: 26763-19-6

ACHEREY-NAGE (MN> ISO 9001 CERTIFIEI

MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany DE/international: CH: FR: US: Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: +1 484 821 0984 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 Fax: +1 484 821 1272 Version: M V 4.12.0 E-mail: info@mn-net.com E-mail: sales-ch@mn-net.com E-mail: sales-fr@mn-net.com E-mail: sales-us@mn-net.com



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60)0 μL Liquid Proteinase K				
		nase K, liquid (origin: tritirachium a	album)	CAS No.: 39450-01-6I	
	Classification:	H315, Skin Irrit. 2, H319, Eye Irr			
	Formula:	Enzyme Comm. No. 3.4.21.64,o	rigin: tritirachium album		
	TSCA Inventory:	listed (CAS 102925-54-2)	-		
	EC No.:	254-457-8	Indice No.:	647-014-00-9	
	RTECS:	-	MFCD:	00132129	
	KE No.:	not listed			
	Concentration:	1 - <3 %			
	acc. CLP (GHS):	The criteria for classification are not fulfi	lled.		
	Chemical: glycer	ole		CAS No.: 56-81-5	
	Classification:	No criteria for classification or naming of	f chemical not required.		
	Formula:	C ₃ H ₈ O ₃			
	Pseudonym:	glycerin, 1,2,3-propanetriol			
	TSCA Inventory:	listed (1,2,3-Propanetriol)			
	REACH Reg. No.:	01-2119471987-18-xxxx			
	EC No.:	200-289-5	Indice No.:	n/a	
	RTECS:	MA8050000	MFCD:	00004722	
	KE No.:	KE-29297			
	Concentration:	50 - <80 %			
	acc. CLP (GHS):	The criteria for classification are not fulfi	lled.		
25	5 mL VL Chemical: <i>quani</i>	dine hydrochloride		CAS No.: 50-01-1	
	Classification:	H302, Acute Tox. 4 oral, H315,	Skip Irrit 2 U310 Evo Irrit		
	Formula:	CH ₆ CIN ₃	Skin int. 2, 11519, Lye int	2	
	Pseudonym:	guanidinium chloride			
	TSCA Inventory:	listed			
	REACH Reg. No.:	01-2119977063-35-0005			
	EC No.:	200-002-3	Indice No.:	607-148-00-0	
	RTECS:	MF4300000	MFCD:	00013026	
	KE No.:	KE-18111	WI CD.	00013020	
	Concentration:	50 - <66 %			
	acc. CLP (GHS):	H302, Acute Tox. 4 oral, H315,	Skin Irrit. 2, H319, Eye Irrit	. 2	
30) mL VW1 Chemical: <i>quani</i>	dine hydrochloride		CAS No.: 50-01-1	
	Classification:	H302, Acute Tox. 4 oral, H315,	Skin Irrit 2 H319 Eve Irrit		
	Formula:	$CH_6 CIN_3$			
	Pseudonym:	guanidinium chloride			
	TSCA Inventory:	listed			
	REACH Reg. No.:	01-2119977063-35-0005			
	EC No.:	200-002-3	Indice No.:	607-148-00-0	
	RTECS:	MF4300000	MFCD:	00013026	
	KE No.:	KE-18111		00010020	
	Concentration:	36 - <50 %			
	acc. CLP (GHS):	H302, Acute Tox. 4 oral, H319,	Eye Irrit. 2		
	Chemical: 2-prop	banol		CAS No.: 67-63-0	
	Classification:	H225, Flam. Lig. 2, H319, Eye li	rrit. 2. H336. STOT SE 3		
	Formula:	$C_3 H_8 O$	_,		
	Pseudonym:	isopropanol, IPA, propan-2-ol			
	TSCA Inventory:	listed			
	REACH Reg. No.:	01-2119457558-25-XXXX			
	EC No.:	200-661-7	Indice No.:	603-117-00-0	
	RTECS:	NT8050000	MFCD:	00011674	
	KE No.:	KE-29363		00011014	
	Concentration:	20 - <35 %			
	acc. CLP (GHS):	H226, Flam. Liq. 3, H319, Eye li	rrit. 2, H336, STOT SE 3		
	. ,	· · · · ·			
12	2 mL VW2				



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REF: 740983.50		NucleoSpin Virus (50)		Page: 5/12
Printing date: 12.05.20)21	Date of issue: 09.11.2020		
	Chemical: chem Classification: TSCA Inventory: KE No.: Concentration: acc. CLP (GHS):	<i>icals/mixture</i> < 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.: -	
13 mL ∣	RNase-free H ₂ O Chemical: <i>watel</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 ₂ 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



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

	g date: 12.05.2021	Date of issue: 09.11.2020	
	FION 6: Accidental release		
5LC1 5.1		ective equipment and emergenc	v procedures
). I	Do not breathe vapours. Regular staf		y procedures
6.2	Environmental precautions not necessary		
6.3	Methods and material for co Bind any escaping liquid with inert ab Collect small amounts of leaked liquid		
6.4	Reference to other sections		
SECT	ΓΙΟΝ 7: Handling and stor	rage	
7.1	Precautions for safe handlin	•	
7.2	5	instruction, that comes with the product. , including any incompatibilities	-
	-	CHEREY-NAGEL allows a safe storage. 3 1	>
7.2.1		s and containers tightly closed during handling and storage.	
7.3	Specific end use(s) Product for analytical use.		
SECT	FION 8: Exposure controls	s/personal protection	
8.1	Control parameters		
	0.09-1.0 mg Carrier RNA Chemical: carrier RNA		CAS No.: 26763-19-6
		<i>id (origin: tritirachium album)</i> 00006 _{15min} mg/m³	CAS No.: 39450-01-61
	DNEL = Derived No-Effect Leve		CAS No.: 56-81-5
		00 E mg/m ³	
	Short-term exposure factor: 2 (skin resorptive (H), respiratory	y sensitizable (Sa), skin sensitizable (Sh), teratogenic	c (Z) not securely excluded / (Y) certainly excluded
	SUVA(CH) MAK value: 50) e* mg/m³	
	25 mL VL Chemical: guanidine hydroch DNEL: [in]	հ] 3.5 mg/m³	CAS No.: 50-01-1
	DNEL = Derived No-Effect Leve PNEC(fresh water) : - PNEC = Predicted No Effected		
	[TWA] Time-weighted average	ot listed to a reference period of 8 hours, [STEL] Short-term e ot listed	exposure limit related to a 15-minute period
	30 mL VW1		
	Chemical: guanidine hydroch DNEL: [in] DNEL = Derived No-Effect Leve	ւի] 3.5 mg/m³	CAS No.: 50-01-1
	PNEC(fresh water) : -		www.mn-net
MACI	HEREY-NAGEL GmbH & Co. KG · Neu	ımann-Neander-Str. 6–8 · 52355 Düren ·	Germany
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OS Ch DN FN TR Sh SL TR NIC OS 12 Ch 13 Ch 8.2.2 Expos Good v level of 8.2.1 Re No 8.2.2 Ha No 8.2.2 Ha Ye or 8.2.3 Ey	PNEC = Predicted No Effo OSH: [TWA] Time-weighted ave SHA: nemical: 2-propanol NEL: DNEL = Derived No-Effec NEC(fresh water) : PNEC = Predicted No Effo RGS 900 (DE): nort-term exposure factor: skin resorptive (H), respi JVA(CH) MAK value: RGS 903 (DE): OSH: NIOSH STEL: [TWA] Time-weighted ave SHA: 2 mL VW2 nemical: chemicals/miz 8 mL RNase-free H ₂ O nemical: water	not listed erage to a reference period of 8 hours, [STEL not listed [inh] 500 mg/m ³ ct Level (for workers) 140.9 mg/L fected Concentration 200 ppm / 500 mg/m ³ E/e respirable : 2 (II), Y biratory sensitizable (Sa), skin sensitizable (Si 200 ppm / 500 mg/m ³ [Aceton B/b, U/b] 25 mg/L B blood, U urine, a no limitation, b end o [TWA] 400 ppm / 980 mg/m ³ 500 ppm / 1225 mg/m ³ erage to a reference period of 8 hours, [STEL [TWA] 400 ppm / 980 mg/m ³] Short-term exposure limit related to a 15-minute period CAS No.: 67-63-0 n), teratogenic (Z) not securely excluded / (Y) certainly excluded	
OS Ch DN PN TR Sh SL TR NIC OS 12 Ch 13 Ch 13 Ch 8.2 Expos Good v level of 8.2.1 Re No 3.2.2 Ha No 3.2.2 Ha Ye or	OSH: [TWA] Time-weighted ave SHA: nemical: 2-propanol NEL: DNEL = Derived No-Effect NEC(fresh water): PNEC = Predicted No Effect NEC(fresh water): PNEC = Predicted No Effect NEC(fresh water): PNEC = Predicted No Effect (FNR) = Predicted	not listed erage to a reference period of 8 hours, [STEL not listed [inh] 500 mg/m ³ ct Level (for workers) 140.9 mg/L fected Concentration 200 ppm / 500 mg/m ³ E/e respirable : 2 (II), Y biratory sensitizable (Sa), skin sensitizable (Si 200 ppm / 500 mg/m ³ [Aceton B/b, U/b] 25 mg/L B blood, U urine, a no limitation, b end o [TWA] 400 ppm / 980 mg/m ³ 500 ppm / 1225 mg/m ³ erage to a reference period of 8 hours, [STEL [TWA] 400 ppm / 980 mg/m ³	CAS No.: 67-63-0 n), teratogenic (Z) not securely excluded / (Y) certainly excluded of exposition or shift] Short-term exposure limit related to a 15-minute period CAS No.: - CAS No.: 7732-18-5	haat
OS Ch DN PN TR Sh SL TR NIC OS 12 Ch 13 Ch 13 Ch 8.2.1 Re Sood v level of 8.2.1 Re No 8.2.2 Ha No 8.2.2 Ha Sood v Sood v	[TWA] Time-weighted ave SHA: nemical: 2-propanol NEL: DNEL = Derived No-Effect NEC(fresh water): PNEC = Predicted No Effect NICC = Predicted No Effect RGS 900 (DE): nort-term exposure factor: skin resorptive (H), respi JVA(CH) MAK value: RGS 903 (DE): OSH: NIOSH STEL: [TWA] Time-weighted ave SHA: 2 mL VW2 nemical: chemicals/mize 5 mL RNase-free H 2 O nemical: water Sure controls ventilation and extraction s	erage to a reference period of 8 hours, [STEL not listed [inh] 500 mg/m ³ ct Level (for workers) 140.9 mg/L fected Concentration 200 ppm / 500 mg/m ³ E/e respirable 2 (II), Y juratory sensitizable (Sa), skin sensitizable (Si 200 ppm / 500 mg/m ³ [Aceton B/b, U/b] 25 mg/L B blood, U urine, a no limitation, b end of [TWA] 400 ppm / 980 mg/m ³ 500 ppm / 1225 mg/m ³ erage to a reference period of 8 hours, [STEL [TWA] 400 ppm / 980 mg/m ³ sixture < 1%	CAS No.: 67-63-0 n), teratogenic (Z) not securely excluded / (Y) certainly excluded of exposition or shift] Short-term exposure limit related to a 15-minute period CAS No.: - CAS No.: 7732-18-5	hoot
Ch DN PN TR Sh SL TR NIC OS 12 Ch 13 Ch 8.2 Expos Good v level of 8.2.1 Re No 8.2.2 Ha No 8.2.2 Ha Soc Ve or 8.2.3 Ey	nemical: 2-propanol NEL: DNEL = Derived No-Effect NEC(fresh water) : PNEC = Predicted No Effect RGS 900 (DE): nort-term exposure factor: skin resorptive (H), respi JVA(CH) MAK value: RGS 903 (DE): OSH: NIOSH STEL: [TWA] Time-weighted avec SHA: 2 mL VW2 nemical: chemicals/mis 5 mL RNase-free H ₂ O nemical: water Sure controls ventilation and extraction s	[inh] 500 mg/m ³ ct Level (for workers) 140.9 mg/L fected Concentration 200 ppm / 500 mg/m ³ E/e respirable : 2 (II), Y irratory sensitizable (Sa), skin sensitizable (Si 200 ppm / 500 mg/m ³ [Aceton B/b, U/b] 25 mg/L B blood, U urine, a no limitation, b end o [TWA] 400 ppm / 980 mg/m ³ 500 ppm / 1225 mg/m ³ erage to a reference period of 8 hours, [STEL [TWA] 400 ppm / 980 mg/m ³ <i>ixture < 1%</i>	n), teratogenic (Z) not securely excluded / (Y) certainly excluded of exposition or shift] Short-term exposure limit related to a 15-minute period CAS No.: - CAS No.: 7732-18-5	hoot
DN PN TR Sh SL TR NI OS 12 Ch 13 Ch 8.2 Expos Good v level of 8.2.1 Re No 8.2.2 Ha No 8.2.2 Ha Sor Sor Sor Sor Sor Sor Sor Sor Sor Sor	NEL: DNEL = Derived No-Effect NEC (fresh water) : PNEC = Predicted No Effect RGS 900 (DE): nort-term exposure factor: skin resorptive (H), respination JVA(CH) MAK value: RGS 903 (DE): OSH: NIOSH STEL: [TWA] Time-weighted avector SHA: 2: mL VW2 memical: chemicals/mixing 3: mL RNase-free H2 O memical: water Sure controls ventilation and extraction s	ct Level (for workers) 140.9 mg/L fected Concentration 200 ppm / 500 mg/m ³ E/e respirable : 2 (II), Y siratory sensitizable (Sa), skin sensitizable (Si 200 ppm / 500 mg/m ³ [Aceton B/b, U/b] 25 mg/L B blood, U urine, a no limitation, b end of [TWA] 400 ppm / 980 mg/m ³ 500 ppm / 1225 mg/m ³ erage to a reference period of 8 hours, [STEL [TWA] 400 ppm / 980 mg/m ³ <i>Sixture < 1%</i>	n), teratogenic (Z) not securely excluded / (Y) certainly excluded of exposition or shift] Short-term exposure limit related to a 15-minute period CAS No.: - CAS No.: 7732-18-5	hoot
PN TR Sh SL TR NI OS 12 Ch 13 Ch 8.2 8.2 8.2 8.2 1 8.2.1 Re No 8.2.1 Re No 8.2.2 Ha No 8.2.2 Ha Sor Ve or 8.2.3 Ey	DNEL = Derived No-Effect NEC (fresh water) : PNEC = Predicted No Effect RGS 900 (DE): nort-term exposure factor: skin resorptive (H), respi JVA(CH) MAK value: RGS 903 (DE): OSH: NIOSH STEL: [TWA] Time-weighted avec SHA: 2 mL VW2 nemical: chemicals/miz 3 mL RNase-free H ₂ O nemical: water Sure controls ventilation and extraction s	ct Level (for workers) 140.9 mg/L fected Concentration 200 ppm / 500 mg/m ³ E/e respirable : 2 (II), Y siratory sensitizable (Sa), skin sensitizable (Si 200 ppm / 500 mg/m ³ [Aceton B/b, U/b] 25 mg/L B blood, U urine, a no limitation, b end of [TWA] 400 ppm / 980 mg/m ³ 500 ppm / 1225 mg/m ³ erage to a reference period of 8 hours, [STEL [TWA] 400 ppm / 980 mg/m ³ <i>Sixture < 1%</i>	of exposition or shift] Short-term exposure limit related to a 15-minute period CAS No.: - CAS No.: 7732-18-5	hoot
TR Sh SL TR NIC OS 12 Ch 13 Ch 13 Ch 8.2.1 Re No 8.2.1 Re No 8.2.2 Ha No 8.2.2 Ha No 8.2.2 Ha Ye or	RGS 900 (DE): nort-term exposure factor: skin resorptive (H), respi JVA(CH) MAK value: RGS 903 (DE): OSH: NIOSH STEL: [TWA] Time-weighted ave SHA: 2 mL VW2 nemical: <i>chemicals/mi</i> 3 mL RNase-free H ₂ O nemical: <i>water</i> sure controls ventilation and extraction s	200 ppm / 500 mg/m ³ E/e respirable 2 (II), Y iiratory sensitizable (Sa), skin sensitizable (Si 200 ppm / 500 mg/m ³ [Aceton B/b, U/b] 25 mg/L B blood, U urine, a no limitation, b end of [TWA] 400 ppm / 980 mg/m ³ 500 ppm / 1225 mg/m ³ erage to a reference period of 8 hours, [STEL [TWA] 400 ppm / 980 mg/m ³ ixture < 1%	of exposition or shift] Short-term exposure limit related to a 15-minute period CAS No.: - CAS No.: 7732-18-5	hoot
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Ch 13 Ch 8.2 Expose Good v level of 8.2.1 Re No 8.2.2 Ha Ye or 8.2.3 Ey Ye	nemical: chemicals/miz mL RNase-free H ₂ O nemical: water sure controls rentilation and extraction s	system in the room, floor resistant to	CAS No.: 7732-18-5	haat
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Ch 8.2 Expos Good v level of 8.2.1 Re No 8.2.2 Ha Ye or 8.2.3 Ey Ye	nemical: water sure controls ventilation and extraction s			haat
Good v level of 8.2.1 Re No 8.2.2 Ha Ye or 8.2.3 Ey Ye	ventilation and extraction s		chemicals with floor drainage and washing facilities. The hig	haat
Ye or 3.2.3 Ey Ye	espiratory protection additional recommendat	·		
Ye		374 (permeation time >30 min - level s chemical resistant latex gloves witl	2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from a code EN 374-3 level 1.	n Ansel
9.2.A CK	/e protection es, safety glasses accordi	ng EN 166 with integrated side shie	ds or wrap-around protection.	
	kin protection ot necessary.			
Ea wit	th the skin, eyes and cloth	hing. Rinse any clothing on which th	ork areas and at outdoor workplaces is prohibited. Avoid conta e substance has been spilled, and soak it in water. Wash han eating, and then apply protective skin cream.	
	: Physical and c	hemical properties		
9.1 Inform	mation on basic phy	ysical and chemical proper	ties	
	09-1.0 mg Carrier RNA opearance: solid (lyoph.)	Colour: colourless	Odor: odorless	
	0 μL Liquid Proteinase Ι opearance: liquid	K Colour: colourless	Odor: odorless	
	pecific gravity:	7-8 1.1 g/cm³		
So	olubility in water:	0-100 %		
	5 mL VL		Oder oderlage	
Ар	opearance: liquid	Colour: colourless	Odor: odorless	

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

REF: 7409	983.50	NucleoSpin Virus (50)	Page: 8/12
Printing da	ate: 12.05.2021	Date of issue: 09.1	1.2020	
	pH: Specific gravity:	4.5-5.2 1.18 g/cm³		
	30 mL VW1 Appearance: liquid pH: Flash point: Specific gravity:	Colour: colourless 7-8 25 °C 1.06 g/cm³	Odor: alcoholic	
	12 mL VW2 Appearance: liquid pH: Specific gravity:	Colour: colourless 7-8 1.00 g/cm³	Odor: odorless	
	13 mL RNase-free H 2 O 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	

600 µL Liquid Proteinase K

Chemical:	proteinase K, liquid (origin	tritirachium album)	CAS No.: 39450-01-6
	, , , , , ,	,	CAS NO.: 33430-01-01
TSCA Inventory:	listed (CAS 10292	5-54-2)	
Japan CSCL/PRTR:	not listed		
Japan ISHL:	not listed		
Korea Exist.Chem.Inv	ventory: not listed		

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

Printing date: 12.05.2021 Date of issue: 09.11.2020 Chemical: glycerole CAS No.: 56-81-5 TSCA Inventory: listed (1,2,3-Propanetriol) Exposure Routes: Exposure Routes: inhalation, skin and/or eye contact Target Organs: Eyes, skin, respiratory system, kidneys Symptoms: irritation eyes, skin, respiratory system, headache, nausea, vomiting; kidney injury Japan ISHL: not listed Japan ISHL: not listed Japan PDSCL: not listed LD50µr rat: 12.6 g/kg Japan ISHL: not listed Australia NICNAS: not listed Japan ISHL: not listed LD50µr rat: 475-907 mg/kg Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities. Japan ISHL: not listed LD50µr rat: guanidine hydrochloride California Proposition 65 List: not listed Japan ISHL: not	
TSCA Inventory: listed (1.2.3-Propanetriol) Exposure Routes: inhalation, skin and/or eye contact Target Organs: Eyes, skin, respiratory system, kidneys Symptoms: irritation eyes, skin, respiratory system, headache, nausea, vomiting; kidney injury Japan CSCL/PRTR: not listed Acrea Exist Chem.Inventory: KE-29297 LD50ofrat: 12.6 g/kg LD50ofrat: 12.6 g/kg LD50ofrat: 12.6 g/kg LD50mm rbt: mot listed Carea Exist Chem.Inventory: KE-29297 LD50mm rbt: >18.7 g/kg TRGS 905 (DE): RF C 25 mL VL California Proposition 65 List: not listed Australia NICNAS: not listed California Proposition 65 List: not listed Japan CSCL/PRTR: not listed Canada CEPA 1999: DSL yes Japan CSCL/PRTR: not listed Canada CEPA 1999: DSL yes Japan CSCL/PRTR: not listed Case Xist Chem.Inventory: KE-18111 LD50ofm rbt: 2000 mg/kg Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities. 30 mL WMI Chemical: Galifornia Proposition 65 List: not listed	
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TSCA Inventory: listed (1.2.3-Propanetriol) Exposure Routes: inhalation, skin and/or eye contact Target Organs: Eyes, skin, respiratory system, kidneys Symptoms: irritation eyes, skin, respiratory system; headache, nausea, vomiting; kidney injury Japan CSCL/PRTR: not listed Korea Exist.Chem.Inventory: KE-29297 LD50ofrat: 12.6 g/kg LD50mr rot: RF C 25 mL VL CAS No.: 50-01-1 TSCA Inventory: listed Japan OSCL/PRTR: not listed Australia NICNAS: not listed Japan OSCL/PRTR: not listed Japan CSCL/PRTR: not listed Japan ISHL: not listed Japan ISHL: not listed South Korea TCCA: not listed South Korea TCCA: not listed South Korea TCCA: not listed LD50dm rot: 2000 mg/kg Acute Effects: Ca	
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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 PDSCL: not listed Japan ISHL: not listed South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-18111 LD50o/rrat: [4h] 3181-7655 µg/m ³ LD50drm rbt: 2000 mg/kg Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities. 30 mL VW1 Chemical: guanidine hydrochloride CAS No.: 50-01-1 TSCA Inventory: listed California Proposition 65 List: not listed Australia NICNAS: not listed Japan ISHL: not listed Australia NICNAS: not listed Japan ISHL: not listed South Korea TCCA: not listed Australia NICNAS: not listed South Korea TCCA: not listed Japan ISHL: not listed South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-18111 LD50odr rat: 475-907 mg/kg LC50ihl rat: [4h] 3181-7655 µg/m ³ LD50drm rbt: 2000 mg/kg Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.	
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LD50 _{drm rbt} : 2000 mg/kg Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.	
Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.	
Chemical: 2-propanol CAS No.: 67-63-0	
Chemical: 2-propanol CAS No.: 67-63-0 TSCA Inventory: listed California Proposition 65 List: not listed	
ACGIH: 1230 ppm	
Exposure Routes: inhalation, ingestion, skin and/or eye contact	
Target Organs: Eyes, skin, respiratory system	
Symptoms: irritation eyes, nose, throat; drowsiness, dizziness, headache; dry cracking skin; in ani	imals: narcosis
Australia NICNAS: Canada CEPA 1999: DSL yes	maio
Japan CSCL/PRTR: PAC yes, Japan PDSCL: -	
Japan ISHL: listed ≥1,0%/≥0,1%, Article 57-2 (SDS required)	
South Korea TCCA:	
Korea Exist.Chem.Inventory: KE-29363	
LD50 _{orl rat} : 5045 mg/kg	
LC_Low _{orl hmn} : 3570 mg/kg	
LC50 _{ihl rat} : 16 _{4h} g/m ³	
LD50 _{drm rbt} : 12.8 g/kg	
TRGS 905 (DE): R _F C	
12 mL VW2	
Chemical: chemicals/mixture < 1% CAS No.: -	
TSCA Inventory: all listed, <1%	
Korea Exist.Chem.Inventory: listed	
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	40983.50 g date: 12.05.2021	NucleoSpin Virus (50) Date of issue: 09.11.2020		Page: 10/
i inturty		540 01 15940. 00. 11.2020		
	13 mL RNase-free H ₂ O Chemical: water TSCA Inventory: list Korea Exist.Chem.Inventory: KE		CAS No.: 7732-18-5	
SECT	ION 12: Ecological inforn	nation		
12.1	Toxicity			
	Following information is valid for p	ure substances.		
	0.09-1.0 mg Carrier RNA Chemical: carrier	RNA	CAS No.: 26763-19-6	
	600 μL Liquid Proteinase K Chemical: proteir Water hazard class (DE): Storage class (VCI):	nase K, liquid (origin: tritirachium album) 1 13	CAS No.: 39450-01-6l	
	Chemical: glycero PNEC(fresh water) : PNEC = Predicted No Effected Cor		CAS No.: 56-81-5	
	LC50 _{fish/96h} : EC50 _{daphnia/48h} : IC50 _{scenedesmus} quadricauda/7. EC10 _{pseudomonas} putita/16h Water hazard class (DE): Dispersion coefficient _{(octanol} Storage class (VCI):	>5000 _{24h} mg/L >10 _{24h} g/L 2h : IC5 _{7d} >10 g/L EC5: >10 g/L 0		
	25 mL VL Chemical: guanic PNEC(fresh water) : PNEC = Predicted No Effected Con	line hydrochloride -	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		
	30 mL VW1 Chemical: guanic PNEC _{(fresh water}) : PNEC = Predicted No Effected Cor	line hydrochloride	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		
	Chemical: 2-prop PNEC(fresh water) : PNEC = Predicted No Effected Cor		CAS No.: 67-63-0	
	LC50fish/96h : EC50 _{daphnia} /48h : IC50 _{scenedesmus} quadricauda/7: EC10 _{pseudomonas} putita/16h : Water hazard class (DE):	1400 mg/L 13.3 g/L		
	Dispersion coefficient _{(octanol} Storage class (VCI):			



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REF: 7	40983.50	NucleoSpin Virus (50)	Page: 11/12
Printing	g date: 12.05.2021	Date of issue: 09.11.2020	
	12 mL VW2 Chemical: chemical Water hazard class (DE): Storage class (VCI):	s/mixture < 1% 1 12-13	CAS No.: -
	13 mL RNase-free H ₂ O Chemical: water		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 no additional data available		

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

UN 1993 class 3 III, Excepted Quantities (≤30 mL/∑≤1 L) = ADR/ IATA E1 or

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

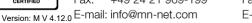
MN Leaflet/User manual, also see www.mn-net.com

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 relevant P phrases		
	P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.	
	P260D	Do not breathe vapours.	
	P264W	Wash with water thoroughly after handling.	
	P280sh	Wear protective gloves/eye protection.	
	P301+312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.	

Rinse mouth

P330 16.2 **Training advice**

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. MACHEREY-NAGEL GmbH & Co. KG makes NO REPRESENTATIONS or WARRANTIES, either expressed or implied, including

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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, 4th adaptation of CLP regulation to technical and scientific progress Regulation 669/2018/EU, 4th 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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