# **MACHEREY-NAGEL**



# Safety Data Sheet

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

REF: 740966.50	NucleoSpin TriPrep (50)	Page: 1/18
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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

REF Product name 740966.50 NucleoSpin TriPrep (50)

REACH Registration number(s): see SECTION 3.1/3.2 or A registration number for the substance(s) does not exist because the annual tonnage does not require registration or the substance or its use is excluded from registration.

> 1 x 12 mL DNA Elute 1 x 12 mL DNA Wash 1 x 7 mL DRB (OEM) 1 x 45 mL PP 1 x 7,5 mL PSB 1 x 15 mL RA2 1 x 12 mL RA3 1 x 25 mL RP1 1 x 107 mg TCEP 1 x 200 U, Size D, rDNase 1 x 13 mL RNase-free H<sub>2</sub> O

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

Product for analytical use.

Exposure Scenario Classification according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0 The exposure scenario is integrated into sections 1-16. Uses advised against not described

### 1.3 Details of the supplier of the safety data sheet

Manufactured by:

MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11, 52355 Düren, GERMANY Tel.: +49 2421 969 0

### 1.4 Emergency telephone number

Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service.DE: Gemeinsames Giftinformationszentrum (GGIZ)99089 Erfurt tel. +49 361 730 730

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

## **SECTION 2: Hazard identification**

### 2.0 Classification of the complete product



Signal word

0	
Hazard identification	Hazard classes/categories
H226	Flam. Liq. 3
H302	Acute Tox. 4 oral
H315	Skin Irrit. 2
H319	Eye Irrit. 2
H334	Resp. Sens. 1
H412	Aquatic Chronic 3

DANGER

E-mail: sds@mn-net.com (msds@mn-net.com)

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MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany ACHEREY-NAGE DE/international: CH: FR: US: (MN) Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: +1 484 821 0984 ISO 9001 CERTIFIEI 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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# **MACHEREY-NAGEL**



# Safety Data Sheet

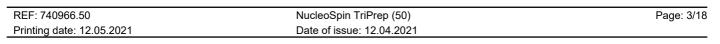
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2.1	Classification of the substa	ince or mixture		
	12 mL DNA Elute			
	Signal word	Do not need labelling as hazardous -		
	No hazard class			
	12 mL DNA Wash			
	Signal word	Do not need labelling as hazardous -		
	No hazard class			
	7 mL DRB (OEM)			
	Signal word	Do not need labelling as hazardous -		
	No hazard class			
	45 mL PP			
	Signal word	Do not need labelling as hazardous -		
	Hazard identification	Hazard classes/categories		
	H412	Aquatic Chronic 3		
	7,5 mL PSB			
	Signal word	Do not need labelling as hazardous -		
	No hazard class			
	15 mL RA2			
	Signal word	GHS02 GHS07 WARNING		
	Hazard identification	Hazard classes/categories		
	H226	Flam. Liq. 3		
	H302 H412	Acute Tox. 4 oral Aquatic Chronic 3		
	12 mL RA3			
	Signal word	Do not need labelling as hazardous -		
	No hazard class			
	25 mL RP1			





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



	GHS07
Signal word	WARNING
Hazard identification	Hazard classes/categories
H302 H412	Acute Tox. 4 oral Aquatic Chronic 3
107 mg TCEP	
	$\mathbf{V}$
	GHS07
Signal word	WARNING
Hazard identification	Hazard classes/categories
H315 H319	Skin Irrit. 2 Eye Irrit. 2
200 U, Size D, rDNase	
	GHS08
Signal word	DANGER
Hazard identification	Hazard classes/categories
Hazard identification	Hazard classes/categories Resp. Sens. 1

Signal word

No hazard class

#### 2.2 Label elements

According CLP directive inner packages must be only labelled with GHS symbol(s) and product identificator(s) (EU 1272/2008 Annex I - 1.5.1.2).

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). This labelling exemption is NOT valid for sensibilizing substances.

#### 12 mL DNA Elute

Do not need labelling as hazardous Signal word: -

#### 12 mL DNA Wash

Do not need labelling as hazardous Signal word: -



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US:

Tel.:

Fax:

+1 484 821 0984

+1 484 821 1272

E-mail: sales-us@mn-net.com

# CHEREY-NAGEL



# **Safety Data Sheet**

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#### 7 mL DRB (OEM)

Do not need labelling as hazardous Signal word: -

#### 45 mL PP

Do not need labelling as hazardous Signal word: -

H412 Harmful to aquatic life with long lasting effects.

#### 7,5 mL PSB

Do not need labelling as hazardous Signal word: -

#### 15 mL RA2



Signal word: WARNING

H412 Harmful to aquatic life with long lasting effects.

#### 12 mL RA3

Do not need labelling as hazardous Signal word: -

#### 25 mL RP1



Signal word: WARNING

H412 Harmful to aquatic life with long lasting effects.

#### 107 mg TCEP



#### 200 U, Size D, rDNase



Signal word: DANGER

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+1 484 821 0984 +1 484 821 1272 E-mail: sales-us@mn-net.com



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H334

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

P261sh, P342+311

Avoid breathing dust/vapours. If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

#### 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. The property H314 "Causes severe skin burns and eye damage." of some salts is not applicable, because the mixture is buffered to pH >3-4 (see GHS Directive 1272/2008/EC Annex I, chapter 3.2.3.1.2.). For guanidine thiocyanate CAS 593-84-0: The properties H314, H332 "Causes severe skin burns and eye damage. Harmful if inhaled." are not relevant, because the mixture solution is buffered to pH 4-9 (see GHS Directive 1272/2008/EC Annex I, chapter 3.2.3.1.2.). ---

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

Information pertaining to particular risks to the environment

Harmful to aquatic life with long lasting effects. Avoid contact of substance/mixture to environment. PBT: not applicable vPvB: not applicable

Other hazards

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances or 3.2 Mixtures

#### 12 mL DNA Elute

Chemical: chem	icals/mixture < 1%	CAS No.: -
Classification: TSCA Inventory: KE No.: Concentration:	No criteria for classification or naming of chemical not required. all listed 0.1 - <1 %	0/10/10
acc. CLP (GHS):	The criteria for classification are not fulfilled.	

#### 12 mL DNA Wash

Chemical: chemic	cals/mixture < 1%	CAS No.: -
Classification:	No criteria for classification or naming of chemical not required.	
TSCA Inventory:	all listed, <1%	
KE No.:	listed	
Concentration:	0.1 - <1 %	
acc. CLP (GHS):	The criteria for classification are not fulfilled.	

#### 7 mL DRB (OEM)

Chemical: chemic	cals/mixture < 2%	CAS No.: -
Classification:	No criteria for classification or naming of chemical not required.	
TSCA Inventory:	all listed, <2%	
KE No.:	listed	
Concentration:	1 - <2 %	
acc. CLP (GHS):	The criteria for classification are not fulfilled.	

#### 45 mL PP



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REF: 740966.50		NucleoSpin TriPrep(	,	Page: 6/
Printing date: 12.05.2021	1	Date of issue: 12.04.2	2021	
(               	Chemical: zinc ch Classification: Formula: ISCA Inventory: REACH Reg. No.: EC No.: ATECS: KE No.: Concentration: The classification refers to		Indice No.: MFCD: Correlation facto	CAS No.: 7646-85-7 Aquatic Acute 1, H410, Aquatic Chronic 1 030-003-00-2 00011295 pr: x 0.48 (= %Zn) 2/EC Annex VI, 1.1.3.2 Note 1)
á	acc. CLP (GHS):	H412, Aquatic Chronic 3		
(	Chemical: <i>dodec</i> y Classification:	yl sulfate, sodium salt H228, Flam. Sol. 1, H302, Acute T OT SE 3, H412, Aquatic Chronic 3	ox. 4 oral, H315, S	CAS No.: 151-21-3 kin Irrit. 2, H318, Eye Dam. 1, H332, Acute
F	Formula: Pseudonym:	C <sub>12</sub> H <sub>25</sub> NaO <sub>4</sub> S sodium lauryl sulfate, sulfuric acid	monododecyl ester	- sodium salt
F F F	TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS):	listed 01-2119489461-32-xxxx 205-788-1 WT1050000 KE-21884 1 - <2.5 % The criteria for classification are not fulfilled	MFCD:	00036175
(	Chemical: glycero	ble		CAS No.: 56-81-5
(   	Classification: Formula: Pseudonym: TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS):	No criteria for classification or naming of ch 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 200-289-5 MA8050000 KE-29297 10 - <50 % The criteria for classification are not fulfilled	Indice No.: MFCD:	n/a 00004722
( - (	Chemical: <i>indicat</i> Classification: TSCA Inventory: Concentration: acc. CLP (GHS):	or dye(s) No criteria for classification or naming of ch all listed, <1% 0.01 - <0.1 % The criteria for classification are not fulfilled		CAS No.: -
15 mL RA	12			
(       	Classification: H412, Aquatic Chron Formula: Pseudonym: TSCA Inventory:	ic 3 C <sub>2</sub> H <sub>6</sub> N <sub>4</sub> S guanidine rhodanide listed	ute Tox. 4 derm., H	CAS No.: 593-84-0 I314, Skin Corr. 1B, H332, Acute Tox. 4 inh.
E	REACH Reg. No.: EC No.: RTECS: KE No.: Concentration:	01-2120735072-65-0001 209-812-1 XL1225000 not listed 30 - <45 %	Indice No.: MFCD:	615-004-00-3 00013027



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US: Tel.: +1 484 821 0984 Fax: +1 484 821 1272

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

Fax:

DE/international:

Tel.: +49 24 21 969-0

+41 62 388 55 05 Fax: E-mail: sales-ch@mn-net.com Fax: +33 388 51 76 88 E-mail: sales-fr@mn-net.com

E-mail: sales-us@mn-net.com



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REF: 740966.50 Printing date: 12.05.20	121	NucleoSpin TriF Date of issue: 1	,	Page: 7
Tinting date. 12.05.20		Date of issue. T	2.04.2021	
	Chemical: ethar		0040/4007/EU)	CAS No.: 64-17-5
	(den Classification:	atured with 1%IPA/1%MEK, acc H225, Flam. Liq. 2	.2016/1867/EU)	
	Formula:	$C_2 H_6 O; C_2 H_5 OH$		
	Pseudonym:	ethyl alcohol, methylated spiri	it	
	TSCA Inventory:	listed		
	REACH Reg. No.:	01-2119457610-43-xxxx		
	EC No.:	200-578-6	Indice No.:	603-002-00-5
	RTECS:	KQ6300000	MFCD:	00003568
	KE No.:	KE-13217		
	Concentration: acc. CLP (GHS):	20 - <35 % H226, Flam. Liq. 3		
40				
12 mL		nicals/mixture < 1%		CAS No.: -
	Classification:	No criteria for classification or naming	g of chemical not required.	
	TSCA Inventory:	all listed, <1%		
	KE No.:	listed		
	Concentration:	0.1 - <1 %		
	acc. CLP (GHS):	The criteria for classification are not f	fulfilled.	
25 mL	RP1			
	Chemical: guan Classification:	idinium thiocyanate	2 Acute Tox / derm H3	CAS No.: 593-84-0 314, Skin Corr. 1B, H332, Acute Tox. 4 inh.
	H412, Aquatic Chro		z, Adule Tox. 4 defini., fic	14, Skill Coll. 15, 11352, Acute 10X. 4 lill.
	Formula:	C <sub>2</sub> H <sub>6</sub> N <sub>4</sub> S		
	Pseudonym:	guanidine rhodanide		
	TSCA Inventory:	listed		
	REACH Reg. No.:	01-2120735072-65-0001		
	EC No.:	209-812-1	Indice No.:	615-004-00-3
	RTECS:	XL1225000	MFCD:	00013027
	KE No.: Concentration:	not listed 45 - <60 %		
	acc. CLP (GHS):	H302, Acute Tox. 4 oral, H41	2, Aquatic Chronic 3	
107 mg	TCEP			
		2-carboxyethyl)phosphine hydrod	chloride. TCEP(•HCl)	CAS No.: 51805-45-9
	Classification:	H315, Skin Irrit. 2, H319, Eye		
	Formula:	C <sub>9</sub> H <sub>16</sub> CIO <sub>6</sub> P		
	Pseudonym:	TCEP•HCI		
	TSCA Inventory:	LVE	MFCD:	00145469
	KE No.:	not listed		
	Concentration: acc. CLP (GHS):	70 - <100 % H315, Skin Irrit. 2, H319, Eye	Irrit 2	
	. ,			
	Chemical: inorgation:	anic salts, declaration not neces	,	CAS No.: -
	Pseudonym:	No criteria for classification or naming not hazardous	g of chemical not required.	
	TSCA Inventory:	all listed		
	KE No.:	listed		
	Concentration:	25 - <50 %		
	acc. CLP (GHS):	The criteria for classification are not f	fulfilled.	
200 U. :	Size D, rDNase			
200 0,	Chemical: rDNa	se		CAS No.: 9003-98-9
	Classification:	H334, Resp. Sens. 1		
	Formula:	Enzyme Comm. No. 3.1.21.1,	origin: cloned	
	Pseudonym:	Nuclease, deoxyribo-		
	TSCA Inventory: EC No.:	listed 232-667-0		
	RTECS:	Z3Z-667-0 RF0750000		
	KE No.:	KE-09612		
	Concentration:	90 - <100 %		
	acc. CLP (GHS):	H334, Resp. Sens. 1		



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com



CAS No.: 7732-18-5

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

Chemical: water Classification: N Formula: H TSCA Inventory: Iiis REACH Reg. No.: e EC No.: 2 RTECS: 2 KE No.: K Concentration: 9 acc. CLP (GHS): Th

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.

### 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. Take to a doctor, in a raised position if there are breathing difficulties.

#### 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. Administer a Dexamethasone spray as soon as possible. Ensure quiet, warmth, and provide resuscitation if necessary. In the event of respiratory distress ensure that the patient inhales oxygen. Secure the breathing, heart and circulatory function. ---

#### 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

Chronic Effects: May cause sensitization by skin contact, also in repeated contact of small amounts. May cause allergy or asthma symptoms or breathing difficulties if inhaled. ---

### 4.3 Indication of any immediate medical attention and special treatment needed

Inform patient respectively further measures and the possibility of long-term damages. ---

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

6.1	Personal precautions, protective equipment and emergency procedures
	Do not breathe vapours. Regular staff training is necessary, indicating hazards and precautions on the basis of operating instructions.
	Restrictions on activity must be observed.

#### 6.2 **Environmental precautions**

not necessary, contains only small amounts of these substances

#### 6.3 Methods and material for containment and cleaning up Bind any escaping liquid with inert absorbent. And dispose in accordance to local regulations for the disposal of hazardous chemicals. Clean any contaminated equipment and floors with plenty of water. Collect small amounts of leaked liquid and flush with water into drains.

#### 6.4 Reference to other sections

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Handling in accordance with the test instruction, that comes with the product. Use only in well-ventilated working areas.

- 7.2 Conditions for safe storage, including any incompatibilities The original product package of MACHEREY-NAGEL allows a safe storage. Storage class (VCI): 3 Water hazard class (DE): 3
- 7.2.1 Requirements for stock rooms and containers Keep original product packages tightly closed during handling and storage.

#### 7.3 Specific end use(s)

Product for analytical use.

## SECTION 8: Exposure controls/personal protection

#### 8.1 **Control parameters**

12 mL DNA Chemical:	Elute chemicals/mixtur	e < 1%	CAS No.: -
12 mL DNA			0101
Chemical:	chemicals/mixtur	e < 1%	CAS No.: -
7 mL DRB (0	DEM)		
Chemical:	chemicals/mixtur	e < 2%	CAS No.: -
45 mL PP			
Chemical:	zinc chloride		CAS No.: 7646-85-7
DNEL: DNEL:	1. Derived No-Effect Leve	3zn, inh mg/m³ /el (for workers)	
PNEC(fresh w PNEC	ater) : 0. = Predicted No Effected	0206 mg/L d Concentration	
SUVA(CH) M	IAK value: 1	a mg/m³	
NIOSH:		ot listed	
			t-term exposure limit related to a 15-minute period
OSHA:	no	ot listed	
7,5 mL PSB			
Chemical:	dodecyl sulfate, s		CAS No.: 151-21-3
NIOSH:		ot listed	the second second limit related to a dr. with the second
			t-term exposure limit related to a 15-minute period
OSHA:	no	ot listed	
Chemical:	glycerole		CAS No.: 56-81-5
DNEL:	[ir	ոհ] 56 mg/m³	
DNEL	= Derived No-Effect Lev	vel (for workers)	
PNEC(fresh w	ater) · 0	885 mg/L	



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Printing date:	12.05.2021		Date of issue: 12.04.2021		
			ected Concentration		
	TRGS 900 (I	DE):	200 E mg/m <sup>3</sup> E/e respirable		
		xposure factor: esorptive (H), respi		securely excluded / (Y) certainly excluded	
	SUVA(CH) N	/IAK value:	50 e* mg/m³		
	Chemical:	indicator dye(	(s)	CAS No.: -	
	15 mL RA2			040 N/- 500 04 0	
	Chemical: DNEL:	guanidinium t = Derived No-Effect	<i>hiocyanate</i> [inh] 1092 μg/m³ t Level (for workers)	CAS No.: 593-84-0	
	PNEC(fresh w	vater)	42.4 μg/L ected Concentration		
		Time-weighted ave	not listed prage to a reference period of 8 hours, [STEL] Short-term exposur	e limit related to a 15-minute period	
	OSHA:		not listed		
	Chemical: DNEL:	ethanol	[derm] 343 mg/kg; [inh] 950 mg/m³	CAS No.: 64-17-5	
			t Level (for workers) 0.96 mg/L ected Concentration		
	TRGS 900 (I	DE):	200 mL/m <sup>3</sup> / 380 mg/m <sup>3</sup> E/e respirable		
	Short-term e	xposure factor: esorptive (H), respi	4 (II), Y ratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not	securely excluded / (Y) certainly excluded	
	SUVA(CH) N NIOSH:		500 ppm / 960 mg/m³ [TWA] 1000 ppm / 1900 mg/m³ erage to a reference period of 8 hours, [STEL] Short-term exposur	e limit related to a 15-minute period	
	OSHA:		[TWA] 1000 ppm / 1900 mg/m <sup>3</sup>		
	12 mL RA3 Chemical:	chemicals/mix	xture < 1%	CAS No.: -	
	25 mL RP1 Chemical: DNEL:	guanidinium t	hiocyanate [inh] 1092 μg/m³	CAS No.: 593-84-0	
	DNEL PNEC <sub>(fresh w</sub>	rater):	t Lèvel (for workers) 42.4 μg/L		
	PNEC NIOSH:	= Predicted No Effe	ected Concentration not listed		
	<sup>[TWA]</sup> OSHA:	Time-weighted ave	rage to a reference period of 8 hours, [STEL] Short-term exposur not listed	e limit related to a 15-minute period	
	107 mg TCE	P			
	Chemical:		yethyl)phosphine hydrochloride, TCEP(•HCl)	CAS No.: 51805-45-9	
	Chemical:	inorganic salt	s, declaration not necessary	CAS No.: -	
	<b>200 U, Size</b> Chemical:	<b>D, rDNase</b> rDNase		CAS No.: 9003-98-9	
	13 mL RNas	se-free H <sub>2</sub> O			
	Chemical:	water		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 cleanliness must be maintained at the workplace.

#### 8.2.1 **Respiratory protection**

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Use for open access of these substances for example a protection filter, class A/AX. No additional recommendations.

#### 8.2.2 Hand protection

Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansell or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.

#### Eye protection 8.2.3

Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection.

8.2.4 Skin protection Recommended to avoid contamination with these hazards.

#### 8.2.5 Personal hygiene

12 mL DNA Elute

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

Appearance: liquid pH: Specific gravity:	Colour: colourless 6.5-7.5 1.0 g/cm³	Odor: odorless
<b>12 mL DNA Wash</b> Appearance: liquid pH: Specific gravity:	Colour: colourless 6.5-7.5 1.0 g/cm³	Odor: odorless
<b>7 mL DRB (OEM)</b> Appearance: liquid pH: Specific gravity:	Colour: colourless 6.5-7.5 1.01 g/cm³	Odor: odorless
<b>45 mL PP</b> Appearance: liquid pH: Specific gravity:	Colour: colourless 3.5-4.5 1.01 g/cm³	Odor: odorless
<b>7,5 mL PSB</b> Appearance: liquid pH: Specific gravity:	Colour: green 6.5-7 1.06 g/cm³	Odor: odorless
<b>15 mL RA2</b> Appearance: liquid pH: Flash point: Specific gravity:	Colour: colourless 7.0-7.5 28 °C 1.03 g/cm³	Odor: alcoholic
<b>12 mL RA3</b> Appearance: liquid pH: Specific gravity:	Colour: colourless 7-8 1.00 g/cm³	Odor: odorless
<b>25 mL RP1</b> Appearance: liquid pH: Specific gravity:	Colour: colourless 6.5-7.5 1.13 g/cm³	Odor: odorless
<b>107 mg TCEP</b> Appearance: solid (lyoph.)	Colour: colourless	Odor: penetrative



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+41 62 388 55 00 +41 62 388 55 05 E-mail: sales-ch@mn-net.com FR: Tel.: +33 388 68 22 68 Fax: +33 388 51 76 88 E-mail: sales-fr@mn-net.com

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# arding to Degulations 4007/2006/EC (DEACh) and 2045/220/EL

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	pH:	6.5-7			
	<b>200 U, Size D, rDNase</b> Appearance: solid (lyoph.)	Colour: white	Odor: odorless		
	<b>13 mL RNase-free H</b> <sub>2</sub> <b>O</b> Appearance: liquid pH: Specific gravity:	Colour: colourless 6-8 1.0 g/cm³	Odor: odorless		
9.2	Other information				
	Data for the other parameters of the Relevant Properties of Substanc		ause no registration and no chemical safety	report is required.	
SECT	ION 10: Stability and re	activity			
10.1					
10.2	Chemical stability No known instability.				
10.3	Possibility of hazardous reactions Note: Can form very reactive substances with oxidizing agents. Possible: Contact with acids liberates toxic gas. No further data available.				
10.4	Conditions to avoid Not necessary				
10.5	Incompatible materials Avoid contact with strong acids or a	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.				
SECT	FION 11: Toxicological ir	nformation			
11.1	Information on toxicological effects Following information is valid for pure substances. Quantitative data on the toxicity of this product are not available.				
		<i>ls/mixture &lt; 1%</i> all listed, <1% isted	CAS No.: -		
		ls/mixture < 1%	CAS No.: -		
	TSCA Inventory: a Korea Exist.Chem.Inventory: I	all listed, <1% isted			
	7 mL DRB (OEM)				
	Chemical: chemical	ls/mixture < 2% all listed <2%	CAS No.: -		

TSCA Inventory: all list Korea Exist.Chem.Inventory: listed all listed, <2%

### 45 mL PP

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	Chemical: TSCA Inventory: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.In LD50orl rat : LD50orl mus :		Proposition 65 List: not listed nada CEPA 1999: DSL Yes PDSCL: Deleterious Substanc	NS No.: 7646-85-7 e
7,5	mL PSB			
	Chemical: TSCA Inventory: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.In LD50orl rat : LC50inh rat : LD50drm rbt :	not listed Ca PRTR - Class I Designated Che not listed not listed	Proposition 65 List: not listed nada CEPA 1999: DSL yes	\S No.: 151-21-3 CL: not listed
	Chemical: TSCA Inventory:	<i>glycerole</i> listed (1,2,3-Propanetriol)	CA	NS No.: 56-81-5
	Exposure Routes: Target Organs: Symptoms: Japan CSCL/PRTR: Japan ISHL: Korea Exist.Chem.In LD50 <sub>orl rat</sub> : LD50 <sub>drm rbt</sub> :	inhalation, skin and/or eye conta Eyes, skin, respiratory system, k irritation eyes, skin, respiratory s not listed, Japan PDSCL: not list not listed	idneys ystem; headache, nausea, vo	miting; kidney injury
	TRGS 905 (DE):	R <sub>F</sub> C		
	Chemical: TSCA Inventory:	<i>indicator dye(</i> s) all listed, <1%	CA	\S No.: -
15	mL RA2			
	Chemical: TSCA Inventory: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.In LD50orl rat : LC50drm rbt : LC50ihl rat : LD50jor mus :	not listed Ca not listed, Japan PDSCL: not list not listed not listed	Proposition 65 List: not listed nada CEPA 1999: DSL yes ed	NS No.: 593-84-0
	Chemical: TSCA Inventory: ACGIH: Exposure Routes:	ethanol listed California 1000 ppm inhalation, ingestion, skin and/or	Proposition 65 List: not listed	NS No.: 64-17-5
	Target Organs: Symptoms:	Eyes, skin, respiratory system, c irritation eyes, skin, nose; heada ; reproductive, teratogenic not listed Ca not listed, Japan PDSCL: not list listed ≥0,1%/≥0,1%, Article 57-2 not listed	entral nervous system, liver, b che, drowsiness, lassitude (w nada CEPA 1999: DSL yes ed	blood, reproductive system eakness, exhaustion), narcosis; cougl www.mn-n
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ting date: 12.05.2021	Date of i	ssue: 12.04.2021	
LC_Low <sub>ihl gpg</sub> :	21.9 g/m³		
LC_Loworl hmn :	1400 mg/kg		
LC50 <sub>ihl mouse</sub> :	[4h] 39 g/m³		
LC50 <sub>ihl rat</sub> :	[10h] 20 g/m <sup>3</sup>		
LD50 <sub>drm rbt</sub> :	20 000 mg/kg		
LD50 <sub>oral mouse</sub> :	3450 mg/kg		
TRGS 905 (DE):	K5, M5, R <sub>F</sub> C		
12 mL RA3			
Chemical:	chemicals/mixture < 1%	CAS No.:	_
TSCA Inventory:	all listed, <1%	0.40 110	
Korea Exist.Chem.Inv			
25 mL RP1		<b></b>	
	guanidinium thiocyanate	CAS No.:	593-84-0
TSCA Inventory: Australia NICNAS:		alifornia Proposition 65 List: not listed	
Japan CSCL/PRTR:	not listed not listed, Japan PDSCI	Canada CEPA 1999: DSL yes	
Japan ISHL:	not listed		
•			
South Korea TCCA:	not listed		
Korea Exist.Chem.Inv			
LD50 <sub>orl rat</sub> :	593 mg/kg		
LC50drm rbt :	>2000 mg/m <sup>3</sup>		
LC50 <sub>ihl rat</sub> :	[4h] 5.319 mg/L		
LD50 <sub>ipr mus</sub> :	300 mg/kg	the state of the second state of the second the second state of	
	and oral make, impairments of	health when ingested in small quantities.	
107 mg TCEP			
	tris-(2-carboxyethyl)phosphine h	iydrochloride, TCEP(•HCl) CAS No.:	51805-45-9
TSCA Inventory:	LVE		
Korea Exist.Chem.Inv			
LD50 <sub>orl rat</sub> :	3500 mg/kg		
LD50intraperitonaeal rat :			
LD50 <sub>scu rat</sub> :	>3000 mg/kg		
Chemical:	inorganic salts, declaration not r	necessary CAS No.:	-
TSCA Inventory:	all listed	•	
Korea Exist.Chem.Inv	entory: listed		
200 U, Size D, rDNa Chemical:	<b>se</b> rDNase	CAS No.	9003-98-9
TSCA Inventory:	listed	CAS NO	0000-00-0
Japan CSCL/PRTR:	not listed		
Japan ISHL:	not listed		
Korea Exist.Chem.Inv			
	after impairments of health whe	n indested in small quantities	
		act, also in repeated contact of small amounts	May cause alleray or asthma
Chronic Effects: May	g difficulties if inhaled.		. may badde anorgy or abuilling
	2 <b>O</b>		
symptoms or breathin <b>13 mL RNase-free H</b> Chemical:	water	CAS No.:	7732-18-5
symptoms or breathin <b>13 mL RNase-free H</b> Chemical: TSCA Inventory:	<i>water</i> listed	CAS No.:	7732-18-5
symptoms or breathin <b>13 mL RNase-free H</b> Chemical:	<i>water</i> listed	CAS No.:	7732-18-5



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	ION 12: Ecological information			
12.1	Toxicity Following information is valid for pure sub			
	12 mL DNA Elute		CAS No.	
	Chemical: chemicals/mixi Water hazard class (DE): Storage class (VCI):	1 1 12-13	CAS No.: -	
		12-13		
	12 mL DNA Wash Chemical: chemicals/mixi	cture < 1%	CAS No.: -	
	Water hazard class (DE): Storage class (VCI):	1 12-13	-	
	7 mL DRB (OEM)	·	040 No	
	Chemical: chemicals/mixi Water hazard class (DE): Storage class (VCI):	1	CAS No.: -	
	Storage class (VCI):	12-13		
		ing effects. Avoid contact of substance/mixture to env labelled with P phrases until 125 mL (EU 1272/2008		
	LC50 <sub>fish/96h</sub> : EC50 <sub>daphnia</sub> /48h :	38 mg/L 1.24 mg/L		
	EC50pseudokirchneriella subcapitata/72h	0.05 mg/L		
	Water hazard class (DE): Storage class (VCI):	3 WGK No.: 0207 11		
	7,5 mL PSB			
	Chemical: dodecyl sulfate LC50 <sub>daphnia magna/48h</sub> : LC50 <sub>fish/96h</sub> :	6.3 mg/L 1.31-22.5 mg/L	CAS No.: 151-21-3	
	Water hazard class (DE): Dispersion coefficient <sub>(octanol-water)</sub> : Storage class (VCI):	2 1.6 12-13		
	Chemical: glycerole	0.995 ~~~//	CAS No.: 56-81-5	
	PNEC <sub>(fresh</sub> water) : PNEC = Predicted No Effected Concentration LC50fish/96h :			
	EC50 <sub>daphnia/48h</sub> :	>5000 <sub>24h</sub> mg/L >10 <sub>24h</sub> g/L		
	IC50scenedesmus quadricauda/72h EC10pseudomonas putita/16h	IC5 <sub>7d</sub> >10 g/L EC5: >10 g/L		
	Water hazard class (DE):	0		
	Dispersion coefficient <sub>(octanol-water)</sub> : Storage class (VCI):	-1.76 10		
	Chemical: indicator dye(s Storage class (VCI):	s) 12-13	CAS No.: -	
	15 mL RA2			
	Chemical: guanidinium th Harmful to aquatic life with long lasti	ing effects. Avoid contact of substance/mixture to env labelled with P phrases until 125 mL (EU 1272/2008		
	LC50 <sub>fish/96h</sub> :	[4d] 89.1 mg/L		
	EC50 <sub>daphnia</sub> /48h	42.4 mg/L		
	IC50 <sub>scenedesmus</sub> quadricauda/72h: EC10 <sub>pseudomonas</sub> putita/16h: Water hazard class (DE):	130 mg/L [10d] 200 mg/L 3		
	Dispersion coefficient <sub>(octanol-water)</sub> : Storage class (VCI):	с [pH 5.1] -1.11 12		
		12		www.mn-nei



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Chemical: ethanol PNEC(fresh water) : PNEC = Predicted No Effected Concentration	0.96 mg/L	CAS No.: 64-17-5
LC50daphnia magna/48h : LC50pimephales promelas/96h : LC50leuciscus idus/96h : LC50dish/96h : EC50daphnia/48h : IC50scenedesmus quadricauda/72h : EC10pseudomonas putita/16h : Water hazard class (DE): Dispersion coefficient(octanol-water) :	>100 mg/L 13400 - 15100 mg/L [48h] 8140 mg/L 13 g/L 9.3-14.2 g/L [7d] 5000 mg/L [EC5] 6500 mg/L 1 WGK No.: 0096 -0.31 3	
	ure < 1% 1 12-13	CAS No.: -
Environmental hazards must not be la PNEC(fresh water) : PNEC = Predicted No Effected Concentration	iocyanate ng effects. Avoid contact of substance/mixture to env abelled with P phrases until 125 mL (EU 1272/2008 42.4 μg/L [4d] 89.1 mg/L	
IC50 <sub>scenedes</sub> mus quadricauda/72h : EC10 <sub>pseudomonas</sub> putita/16h : Water hazard class (DE): Dispersion coefficient <sub>(octanol-water)</sub> :	42.4 mg/L 130 mg/L [10d] 200 mg/L 3 [pH 5.1] -1.11 12	
	ethyl)phosphine hydrochloride, TCEP(•HCl) 12-13	CAS No.: 51805-45-9
Water hazard class (DE):	declaration not necessary 1 12-13	CAS No.: -
	1 WGK No.: n.n. 13	CAS No.: 9003-98-9
13 mL RNase-free H <sub>2</sub> O Chemical: water		CAS No.: 7732-18-5
2.2 Persistence and degradability not necessary		
2.3 Bioaccumulative potential not necessary		
2.4 Mobility in soil not necessary		
2.5 Results of PBT and vPvB assessm no data available	ent	



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12.6 Other adverse effects

no additional data available

### SECTION 13: Disposal considerations

Do not collect in acidic waste. May form toxic gases.

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:	1993 14.2	UN proper shipping name: Flammable liquid, n.o.s. (ethanol mixture)
14.3 Class:	3 14.4	Packing group: III
Road transport		
Classification code:	F1	
Limited Quantity:	5 L	Tunnel restriction code: 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, contains only small amounts of these 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.

#### 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.	
	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
	H412	Harmful to aquatic life with long lasting effects.	
16.1.2	List of relevant P phrases		
	P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.	

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	P261sh P264W P273 P280sh P301+312 P304+340 P330 P342+311	Avoid breathing dust/vapours. Wash with water thoroughly after handling. Avoid release to the environment. Wear protective gloves/eye protection. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Rinse mouth. If experiencing respiratory symptoms: Call a POISON CENTER/doctor.	
16.2	<b>Training advice</b> Multiple safety training of staffs for using these pr	of staffs about danger and protection by using hazards in working area. Additionally training and introduction	of

#### 16.3 Recommended restriction on use

### Only for professional user

Look about employee restrictions for young people (f. ex. 94/33/EC or DE § 22 JArbSchG)! Look about employee restrictions for pregnant women and nursing women (f.ex. 92/85/EEC or for DE §§ 11-13 MuSchG 2017)! 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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#### Sources of key data 16.5

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 

 TRGS 907, German engineering rules governing listing of substances and causes of sensitizations, updated November 2011

 KÜHN, BIRETT
 Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

### **Revisions/Updates**

Reason for Revision: 2016-03 Adaptation of regulation 1221/2015/EU 2017-08 Adaption of new ethanol denaturation 2016/1867/EU

2017-11 Adaption of ECHA Registration dossier

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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.: Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 Fax: 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

+1 484 821 0984 +1 484 821 1272 E-mail: sales-us@mn-net.com