# MACHEREY-NAGEI



# Safety Data Sheet

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

REF: 740982.50	NucleoSpin totalRNA FFPE (50)	Page: 1/15
Printing date: 12.05.2021	Date of issue: 12.04.2021	

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

1.1 **Product identifier** 

> REF Product name

740982.50 NucleoSpin totalRNA FFPE (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 7 mL DRB (OEM) 1 x 800 µL Liquid Proteinase K 1 x 1 mL MKA 1 x 10 mL MLF 1 x 25 mL MW2 1 x 60 mL MX 1 x 60 mL Paraffin Dissolver (blue) 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:

1.4

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

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

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

Emergency telephone number



GHS07

Signal word DANGER Hazard identification Hazard classes/categories H225 Flam. Liq. 2 Asp. Tox. 1 H304

H319	Eye Irrit. 2
H334	Resp. Sens. 1
H335	STOT SE 3
H351	Carc. 2



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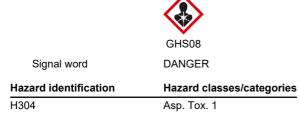
# **MACHEREY-NAGEI**



# **Safety Data Sheet**

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2.1	Classification of the subst	ance or mixture		
	7 mL DRB (OEM)			
	Signal word	Do not need labelling as hazardous -		
	No hazard class			
	800 µL Liquid Proteinase K			
	Signal word	Do not need labelling as hazardous -		
	No hazard class			
	1 mL MKA			
	Signal word	Do not need labelling as hazardous -		
	No hazard class			
	10 mL MLF			
	Signal word	Do not need labelling as hazardous -		
	No hazard class			
	25 mL MW2			
	Signal word	Do not need labelling as hazardous -		
	No hazard class			
	60 mL MX			
	Signal word	GHS02 GHS07 GHS08 DANGER		
	Hazard identification	Hazard classes/categories		
	H225 H319 H335 H351	Flam. Liq. 2 Eye Irrit. 2 STOT SE 3 Carc. 2		
	60 mL Paraffin Dissolver (blu			





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200 U, Size D, rDNase

GHS08

Signal word	DANGER
5	

Hazard identification	Hazard classes/categories
H334	Resp. Sens. 1

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

Signal word	Do not need labelling as hazardous -
No hazard class	

#### Label elements 2.2

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.

### 7 mL DRB (OEM)

Do not need labelling as hazardous Signal word: -

### 800 µL Liquid Proteinase K

Do not need labelling as hazardous Signal word: -

### 1 mL MKA

Do not need labelling as hazardous Signal word: -

### 10 mL MLF

Do not need labelling as hazardous Signal word: -

### 25 mL MW2

Do not need labelling as hazardous Signal word: -

### 60 mL MX



GHS07 GHS08 GHS02

Signal word: DANGER

H351 Suspected of causing cancer.

P201, P280sh

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# CHEREY-NAGE



# Safety Data Sheet

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Obtain special instructions before use. Wear protective gloves/eye protection.

### 60 mL Paraffin Dissolver (blue)



GHS08

Signal word: DANGER

H304

May be fatal if swallowed and enters airways.

P301+310, P331 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Do NOT induce vomiting.

### 200 U, Size D, rDNase



Signal word: DANGER

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. ---

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

Cause after inhalation of vapours/dust, 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. In liquid form no hazard H334. Suspected of causing cancer. May be fatal if swallowed and enters airways. The Paraffin Dissolver needs no labeling H350, because the aromates are reduced (<0.03%). -

Information pertaining to particular risks to the environment

PBT: not applicable

vPvB: not applicable

Other hazards

## SECTION 3: Composition/information on ingredients

#### 3.1 Substances or 3.2 Mixtures

### 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.	

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800 ייי	Liquid Proteinase K				
800 µi		inase K, liquid (origin: tritirachiui	m album)	CAS No.: 39450-01-6I	
	Classification:	H315, Skin Irrit. 2, H319, Eye	e Irrit. 2, H334, Resp. Sens.	1	
	Formula:	Enzyme Comm. No. 3.4.21.6	4,origin: tritirachium album		
	TSCA Inventory:	listed (CAS 102925-54-2)		0.47 0.4.4 0.0 0	
	EC No.: RTECS:	254-457-8	Indice No.: MFCD:	647-014-00-9 00132129	
	KE No.:	- not listed	MICD.	00132129	
	Concentration:	1 - <3 %			
	acc. CLP (GHS):	The criteria for classification are not	fulfilled.		
	Observices I states	and the		040 NI- 50 04 5	
	Chemical: glyce Classification:			CAS No.: 56-81-5	
	Formula:	No criteria for classification or namin C <sub>3</sub> H <sub>8</sub> O <sub>3</sub>	g of chemical not required.		
	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.: Concentration:	KE-29297 50 - <80 %			
	acc. CLP (GHS):	50 - <00 % The criteria for classification are not	fulfilled		
		The chiefta for classification are not	ruimea.		
1 mL	МКА				
· ·//E ·		te buffer solution		CAS No.: -	
	Classification:	No criteria for classification or namin	g of chemical not required.		
	Formula:	CH <sub>3</sub> COOH/K/Na•H <sub>2</sub> O	5		
	TSCA Inventory:	all listed			
	KE No.: Concentration:	listed 45 - <60 %			
	acc. CLP (GHS):	The criteria for classification are not	fulfilled		
		The chiefta for classification are not	runned.		
10 mL	MLF				
	Chemical: tris(h)	/droxymethyl)aminomethane		CAS No.: 77-86-1	
	Classification:	No criteria for classification or namin	g of chemical not required.		
	Formula:	$C_4 H_{11} NO_3$	row mothul) 1.2 propondia		
	Pseudonym: TSCA Inventory:	Trometamol, 2-amino-2-(hydi listed	loxymetriyi)- 1,3-propanedio	I	
	REACH Reg. No.:	01-2119957659-16-0014			
	EC No.:	201-064-4			
	RTECS:	TY2900000	MFCD:	00004679	
	KE No.:	KE-01403			
	Concentration:	1 - <3 %			
	acc. CLP (GHS):	The criteria for classification are not	fulfilled.		
0F - 1	MIM/2				
25 mL		icals/mixture < 1%		CAS No.: -	
	Classification:	No criteria for classification or namin	a of chemical not required		
	TSCA Inventory:	all listed, <1%	g =: Ensinear not roquirou.		
	KE No.:	listed			
	Concentration:	0.1 - <1 %			
	acc. CLP (GHS):	The criteria for classification are not	fulfilled.		
60 mL	MY				
00 ML		oxane		CAS No.: 123-91-1	
	Classification:	H225, Flam. Liq. 2, H319, Ey	e Irrit. 2, H335, STOT SE 3		
	Formula:	C4 H8 O2		. ,	
	Pseudonym:	diethylene dioxide; diethylene	e ether; p-dioxane		
	TSCA Inventory:	listed			
	REACH Reg. No.:	01-2119462837-26-0001	Indian Na :	603 024 00 5	
	EC No.: RTECS:	204-661-8 JG8225000	Indice No.: MFCD:	603-024-00-5 00006571	
	KE No.:	KE-10463		0000071	
	Concentration:	90 - <100 %			
	acc. CLP (GHS):	H225, Flam. Liq. 2, H319, Ey	e Irrit. 2, H335, STOT SE 3	, H351, Carc. 2	

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	60 mL P	araffin Dissolver (bl	ue)			
		Chemical: paraffi	n dissolver		CAS No.: 64742-46-7	
			mates <0.03%)			
		Classification: Formula:	H304, Asp. Tox. 1			
		Pseudonym:	C <sub>15</sub> -C <sub>20</sub> , isomere aliphates distillates (petroleum), hydrotreated i	middle		
		TSCA Inventory:	listed	madic		
		REACH Reg. No.:	01-2119827000-58-XXXX			
		EC No.:	934-956-3	Indice No.:	649-275-00-4	
		KE No.:	KE-12554			
		Concentration:	90 - <100 %			
		acc. CLP (GHS):	H304, Asp. Tox. 1			
		Chemical: colour	dve(s)		CAS No.: -	
		Classification:	No criteria for classification or naming of chem	nical not required.		
		TSCA Inventory:	all listed, <1%	·		
		Concentration:	< 0.10 %			
		acc. CLP (GHS):	The criteria for classification are not fulfilled.			
	200 U. S	ize D, rDNase				
	,.	Chemical: rDNas	е		CAS No.: 9003-98-9	
		Classification:	H334, Resp. Sens. 1			
		Formula:	Enzyme Comm. No. 3.1.21.1, origin: cl	oned		
		Pseudonym:	Nuclease, deoxyribo-			
		TSCA Inventory: EC No.:	listed 232-667-0			
		RTECS:	RF0750000			
		KE No.:	KE-09612			
		Concentration:	90 - <100 %			
		acc. CLP (GHS):	H334, Resp. Sens. 1			
	13 ml R	Nase-free H <sub>2</sub> O				
	TO THE IX	Chemical: water			CAS No.: 7732-18-5	
		Classification:	No criteria for classification or naming of chem	nical not required.		
		Formula:	H <sub>2</sub> O			
		TSCA Inventory:	listed			
		REACH Reg. No.:	exempt, Annex IV			
		EC No.:	231-791-2			
		RTECS: KE No.:	ZC0110000 KE-35400			
		Concentration:	90 - <100 %			
		acc. CLP (GHS):	The criteria for classification are not fulfilled.			
.3	Remarks					
		ot listed, mixtures are	added with water [CAS No. 7732-18-5	] to 100%.		
		and P phrases: see s	-	-		
	Liot of Th					
EC	TION 4: Firs	st aid measur	es			

#### 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).

#### After INHALATION of vapours 4.1.3

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. -

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#### 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. CMR Effects: Suspected of causing cancer. --

#### 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 DANGER: Highly flammable (GHS regulation). Forms 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

## SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Do not breathe vapours. Wear suitable protective gloves (see 8.2.2). 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

#### 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. Not for organic solvents (see section 13).

#### 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): 2

- 721 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**

7 mL DRB (OEM)



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Printing date: 12.05.2	2021	Date of issue: 12.04.2021		
Chem	nical: chemicals/mix	ture < 2%	CAS No.: -	
Chem	n <b>L Liquid Proteinase K</b> nical: <i>proteinase K, k</i> A(CH) MAK value:	<b>G</b> <i>liquid (origin: tritirachium album)</i> 0,00006 <sub>15min</sub> mg/m³	CAS No.: 39450-01-6I	
Chem DNEL	DNEL = Derived No-Effect		CAS No.: 56-81-5	
	C(fresh water) : PNEC = Predicted No Effe S 900 (DE):	0.885 mg/L cted Concentration 200 E mg/m <sup>3</sup> E/e respirable		
	-term exposure factor: skin resorptive (H), respir A(CH) MAK value:	2 (I), Y atory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not sec 50 e* mg/m <sup>3</sup>	rurely excluded / (Y) certainly excluded	
<b>1 mL</b> Chem		solution	CAS No.: -	
Chem DNEL	DNEL = Derived No-Effect		CAS No.: 77-86-1	
NIOS		no data mg/L cted Concentration not listed age to a reference period of 8 hours, [STEL] Short-term exposure lim	it related to a 15-minute period	
OSH/	<b>A</b> :	not listed		
<b>25 ml</b> Chem	L <b>MW2</b> nical: chemicals/mix	ture < 1%	CAS No.: -	
<b>60 ml</b> Chem DNEL	nical: 1,4-dioxane	73 mg/m³ Level (for workers)	CAS No.: 123-91-1	
PNEC	(fresh water) : PNEC = Predicted No Effe	10 mg/L cted Concentration		
EU va		20 ppm / 73 mg/m³ 20 ppm / 73 mg/m³ E/e respirable		
Short	-term exposure factor: skin resorptive (H), respir	2 (I), H, Y atory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not sec	urely excluded / (Y) certainly excluded	
	A(CH) MAK value: S 903 (DE):	20 ppm / 72 mg/m³ 2-Hydroxyethoxyessigsäure U/b Kreatinin 400 mg/g B blood, U urine, a no limitation, b end of exposition or shift		
NIOS		Occupational Carcinogen List Yes; TWA <sub>30min</sub> 1 ppm / rage to a reference period of 8 hours, [STEL] Short-term exposure lim	3.6 mg/m <sup>3</sup> it related to a 15-minute period	
OSH/	A:	[skin] TWA 100 ppm / 360 mg/m³		
Chem	L Paraffin Dissolver (k nical: paraffin dissol S 900 (DE):		CAS No.: 64742-46-7	
Short		2 (II) atory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not sec	urely excluded / (Y) certainly excluded	
OSHA	NIOSH STEL: A:	10 mg/m³ 5 mg/m³		
Chem	nical: colour dye(s)		CAS No.: -	
200 U	I, Size D, rDNase			
	, - ,			



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	Chemical:	rDNase	CAS No.: 9003-	98-9
	<b>13 mL RNa</b> Chemical:	se-free H <sub>2</sub> O water	CAS No.: 7732-	18-5
8.2	Exposure co	ntrols		
		and extraction system ss must be maintained	in the room, floor resistant to chemicals with floor drainage and washind at the workplace.	ng facilities. The highest
8.2.1		r <b>protection</b> n access of these subs	stances for example a protection filter, class A/AX. No additional recom	mendations.
8.2.2		according EN 374 (per	rmeation time >30 min - level 2), consist of PVC, natural latex, Neoprei ical resistant latex gloves with code EN 374-3 level 1.	n, or Nitril (f.ex. from Ansell
8.2.3	<b>Eye protect</b> Yes, safety		166 with integrated side shields or wrap-around protection.	
8.2.4	Skin protect Recomment		ation with these hazards.	
8.2.5	with the skir	king, smoking, taking s n, eyes and clothing. Ri	nuff and storage of food in work areas and at outdoor workplaces is pro- inse any clothing on which the substance has been spilled, and soak it nen stopping work and before eating, and then apply protective skin cre	in water. Wash hands
SECT	FION 9: Phys	ical and chem	ical properties	

#### 9.1 Information on basic physical and chemical properties

<b>7 mL DRB (OEM)</b> Appearance: liquid pH: Specific gravity:	Colour: colourless 6.5-7.5 1.01 g/cm³	Odor: odorless
<b>800 μL Liquid Proteinase K</b> Appearance: liquid pH: Specific gravity: Solubility in water:	Colour: colourless 7-8 1.1 g/cm³ 0-100 %	Odor: odorless
<b>1 mL MKA</b> Appearance: liquid pH: Specific gravity:	Colour: colourless 5-6 1.19 g/cm³	Odor: acetic
<b>10 mL MLF</b> Appearance: liquid Solubility in water:	Colour: colourless 0-100 %	Odor: odorless
<b>25 mL MW2</b> Appearance: liquid pH: Specific gravity:	Colour: colourless 7-8 1.00 g/cm³	Odor: odorless
60 mL MX Appearance: liquid Odor limit: pH: Melting point: Boiling point: Flash point: Evaporation rate <sub>(ether=1</sub> ): Explosion limits: Vapour pressure (20°C): Vapour density <sub>(air=1</sub> ): Specific gravity:	Colour: colourless 10-620 mg/m³ 6-8 12 °C 101.5 °C 11 °C 7,3 1.9-22.5 Vol% 41 hPa 3,04 1.01-1.03 g/cm³	Odor: odorless
	nann Noandar Str. 6, 8, 50251	



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REF: 740982.50	NucleoSpin totalRN	IA FFPE (50)	Page: 10/1
Printing date: 12.05.2021	Date of issue: 12.0	4.2021	
Solubility in water: Flashing temperature: Volatiles by volume:	< 2 % 375 °C 149 g/m³		
60 mL Paraffin Dissolver (blue) Appearance: liquid pH: Melting point: Boiling point: Flash point: Evaporation rate <sub>(ether=1</sub> ) : Explosion limits: Vapour pressure (20°C): Specific gravity: Solubility in water: Dispersion coefficient <sub>(octanol-water</sub> ) : Flashing temperature:	Colour: blue - -18 <sub>pourpoint</sub> °C 245-330 °C >115 °C >1000 1-6 Vol% < 0.003 hPa 0.82 g/cm <sup>3</sup> <0,001 % 7-8.7 >230 °C	Odor: organic	
<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 mixtures are not available, because no registration and no chemical safety report is required. Relevant Properties of Substance Group Substances are very volantile and form flammable vapour-air mixtures. ---

## SECTION 10: Stability and reactivity

#### 10.1 Reactivity

no further data available.

- 10.2 Chemical stability No known instability.
- Possibility of hazardous reactions 10.3 No further data available.

### 10.4 Conditions to avoid

Not necessary. ---

### 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.

### 7 mL DRB (OEM)

Chemical: chemicals/mixture < 2% TSCA Inventory: all listed, <2% Korea Exist.Chem.Inventory: listed

CAS No .: -

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EF: 740982.5 rinting date: 1			ucleoSpin totalRNA FFPE ( ate of issue: 12.04.2021	50) Page: 1
800	µL Liquid Protei	inase K		
	· ·	proteinase K, liquid (origin listed (CAS 10292 not listed not listed not listed		CAS No.: 39450-01-6I
-	TSCA Inventory: Exposure Routes: Target Organs: Symptoms:	irritation eyes, ski	nd/or eye contact atory system, kidneys in, respiratory system; head	CAS No.: 56-81-5 ache, nausea, vomiting; kidney injury
i	Japan CSCL/PRTR: Japan ISHL: Korea Exist.Chem.Inv LD50 <sub>orl rat</sub> : LD50 <sub>drm rbt</sub> :	not listed	PDSCL: not listed	
	TRGS 905 (DE):	R <sub>F</sub> C		
1 m	L MKA			
-	Chemical: TSCA Inventory: Korea Exist.Chem.Inv	acetate buffer solution all listed entory: listed		CAS No.: -
10 r	nL MLF			
	Chemical: TSCA Inventory: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.Inv LD50 <sub>orl rat</sub> :	tris(hydroxymethyl)amino listed not listed not listed, Japan l not listed not listed entory: KE-01403 5000 mg/kg	California Proposition Canada CEPA	CAS No.: 77-86-1 65 List: not listed 1999: DSL yes
25 r	nL MW2			
-	Chemical: TSCA Inventory: Korea Exist.Chem.Inv	chemicals/mixture < 1% all listed, <1% entory: listed		CAS No.: -
60 r	nL MX			
	TSCA Inventory: Exposure Routes: Target Organs: Symptoms: failure; [potential occu Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.Inv LD50 <sub>orl rat</sub> : LC50 <sub>lhl rat</sub> : Acute Effects: Cause	Eyes, skin, respir irritation eyes, ski pational carcinogen] Yes (PEC/7) PAC Yes, PRTR listed ≥1,0%/≥1,0 not listed entory: KE-10463 5150 mg/kg [LC0, 60min] 155	in, nose, throat; drowsiness Canada CEPA - Class I Designated Chemi %, Article 57-1+2 (Labelling mg/L s/dust, impairments of healt ncer.	d/or eye contact ; [in animals: lung, liver & nasal cavity tumors] , headache; nausea, vomiting; liver damage; kidney 1999: DSL Yes cal SubstanceYes, Japan PDSCL: PRTR: ≥1,0% clas



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	40982.50 x data: 12.05.2021	NucleoSpin totalRNA FFPE (50)	Page: 12/1
Printing	g date: 12.05.2021	Date of issue: 12.04.2021	
	60 mL Paraffin Dissolver		
	Chemical: paraffir TSCA Inventory: Japan CSCL/PRTR: Japan ISHL: Korea Exist.Chem.Inventory: LD50 <sub>orl rat</sub> : LC50 <sub>inh rat</sub> : LD50 <sub>drm rbt</sub> :	n dissolver listed not listed, Japan PDSCL: not listed not listed KE-12554 >5000 mg/kg >5266 <sub>4h</sub> mg/m <sup>3</sup> >3160 mg/kg	CAS No.: 64742-46-7
	Chemical: colour of TSCA Inventory:	dye(s) all listed, <1%	CAS No.: -
	200 U, Size D, rDNase		
	Chronic Effects: May cause s	listed not listed not listed KE-09612 apairments of health when ingested in small quantitie sensitization by skin contact, also in repeated contac	
	symptoms or breathing difficu	ulties if inhaled.	
	13 mL RNase-free H <sub>2</sub> O Chemical: water		CAS No.: 7732-18-5
SEC1	TSCA Inventory: Korea Exist.Chem.Inventory:		GAG NO.: 7732-10-3
SECT 2.1	TSCA Inventory: Korea Exist.Chem.Inventory: TION 12: Ecological info Toxicity	KE-35400	GAG NO 7732-10-3
	TSCA Inventory: Korea Exist.Chem.Inventory: TION 12: Ecological info Toxicity Following information is valid f	KE-35400	GAG ING., 7732-10-3
	TSCA Inventory: Korea Exist.Chem.Inventory: TION 12: Ecological info Toxicity Following information is valid for 7 mL DRB (OEM)	KE-35400 <b>Drmation</b> or pure substances. remicals/mixture < 2%	CAS No.: -
	TSCA Inventory: Korea Exist.Chem.Inventory: TON 12: Ecological info Toxicity Following information is valid for 7 mL DRB (OEM) Chemical: ch Water hazard class (DE Storage class (VCI): 800 µL Liquid Proteinase K	KE-35400 Drmation or pure substances. nemicals/mixture < 2% ): 1 12-13	CAS No.: -
	TSCA Inventory: Korea Exist.Chem.Inventory: TON 12: Ecological info Toxicity Following information is valid for 7 mL DRB (OEM) Chemical: ch Water hazard class (DE Storage class (VCI): 800 µL Liquid Proteinase K	KE-35400 <b>Drmation</b> or pure substances. <i>emicals/mixture</i> < 2% ): 1 12-13 Solution tritirachium album)	
	TSCA Inventory: Korea Exist.Chem.Inventory: TION 12: Ecological info Toxicity Following information is valid fo 7 mL DRB (OEM) Chemical: ch Water hazard class (DE) Storage class (VCI): 800 µL Liquid Proteinase K Chemical: pro Water hazard class (DE) Storage class (VCI):	KE-35400 Drmation or pure substances. pemicals/mixture < 2% ): 1 12-13 coteinase K, liquid (origin: tritirachium album) ): 1 13 /cerole 0.885 mg/L	CAS No.: -
	TSCA Inventory: Korea Exist.Chem.Inventory: <b>TON 12: Ecological info</b> <b>Toxicity</b> <b>Following information is valid fr</b> <b>7 mL DRB (OEM)</b> Chemical: ch Water hazard class (DE) Storage class (VCI): <b>800 µL Liquid Proteinase K</b> Chemical: pro Water hazard class (DE) Storage class (VCI): <b>800 µL Liquid Proteinase</b> Chemical: pro Water hazard class (DE) Storage class (VCI): Chemical: gly PNEC = predicted No Effected LC50fish/96h : EC50daphnia/48h : IC50scenedesmus quadricau EC10pseudomonas putita/16	KE-35400   or mation   or pure substances.   emicals/mixture < 2%	CAS No.: - CAS No.: 39450-01-61
	TSCA Inventory: Korea Exist.Chem.Inventory: CION 12: Ecological info Toxicity Following information is valid fo 7 mL DRB (OEM) Chemical: ch Water hazard class (DE Storage class (VCI): 800 µL Liquid Proteinase K Chemical: pro Water hazard class (DE Storage class (VCI): Chemical: gly PNEC(fresh water) : PNEC = Predicted No Effected LC50fish/96h : EC50daphnia/48h : IC50scenedesmus quadricau	KE-35400   or pure substances.   nemicals/mixture < 2%	CAS No.: - CAS No.: 39450-01-61
	TSCA Inventory: Korea Exist.Chem.Inventory: <b>TON 12: Ecological info</b> <b>Toxicity</b> Following information is valid for <b>7 mL DRB (OEM)</b> Chemical: ch Water hazard class (DE) Storage class (VCI): <b>800 µL Liquid Proteinase K</b> Chemical: pro Water hazard class (DE) Storage class (VCI): <b>800 µL Liquid Proteinase K</b> Chemical: pro Water hazard class (DE) Storage class (VCI): Chemical: gly PNEC = Predicted No Effected LC50fish/96h : EC50daphnia/48h : IC50scenedesmus quadricau EC10pseudomonas putita/16 Water hazard class (DE) Dispersion coefficient(oc) Storage class (VCI): <b>1 mL MKA</b>	KE-35400Drmationor pure substances.remicals/mixture < 2%	CAS No.: - CAS No.: 39450-01-61 CAS No.: 56-81-5
	TSCA Inventory: Korea Exist.Chem.Inventory: <b>TON 12: Ecological info</b> <b>Toxicity</b> Following information is valid for <b>7 mL DRB (OEM)</b> Chemical: ch Water hazard class (DE) Storage class (VCI): <b>800 µL Liquid Proteinase K</b> Chemical: pro Water hazard class (DE) Storage class (VCI): <b>800 µL Liquid Proteinase K</b> Chemical: pro Water hazard class (DE) Storage class (VCI): Chemical: gly PNEC = Predicted No Effected LC50fish/96h : EC50daphnia/48h : IC50scenedesmus quadricau EC10pseudomonas putita/16 Water hazard class (DE) Dispersion coefficient(oc) Storage class (VCI): <b>1 mL MKA</b>	KE-35400   or pure substances.   remicals/mixture < 2%	CAS No.: - CAS No.: 39450-01-61



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	Chemical: tris(hy PNEC(fresh water) : PNEC = Predicted No Effected Cor	rdroxymethyl)aminomethane no data mg/L ncentration	CAS No.: 77-86-1
	LC50 <sub>fish/96h</sub> : EC50 <sub>p</sub> seudokirchneriella subcapi	LD0 (4d): 1-10 g/L itata/72h: 397;48h: 473 mg/L	
	EC10 <sub>pseudomonas putita/16h</sub> Water hazard class (DE): Dispersion coefficient <sub>(octanol</sub>	1 <sub>3h</sub> g/L 2 ⊦water) : −1.56	
	Storage class (VCI):	12-13	
	25 mL MW2 Chemical: chemi	cals/mixture < 1%	CAS No.: -
	Water hazard class (DE): Storage class (VCI):	1 12-13	0.10110.
	60 mL MX Chemical: 1,4-did	02200	CAS No.: 123-91-1
	PNEC (fresh water) : PNEC = Predicted No Effected Cor		CAS NU.: 123-91-1
	Bio Toxicity: LC50 <sub>fish/96h</sub> :	1/2.1/2.6 [21d] 100 mg/L	
	EC50 <sub>daphnia/48h</sub> : IC50 <sub>scenedesmus</sub> quadricauda/7 Water hazard class (DE):	1 g/L ; <sub>2h</sub> : [72h] 1 g/L 2 WGK No.: 0086	
	Dispersion coefficient <sub>(octanol</sub> Storage class (VCI):		
	60 mL Paraffin Dissolver (blue Chemical: paraffi	) in dissolver	CAS No.: 64742-46-7
	LC50 <sub>fish/96h</sub> : Water hazard class (DE): Dispersion coefficient <sub>(octanol</sub> Storage class (VCI):	>1028 mg/L 1 WGK No.: 0027	
		r dye(s)	CAS No.: -
	200 U, Size D, rDNase Chemical: rDNas		CAS No.: 9003-98-9
	Water hazard class (DE): Storage class (VCI):	1 WGK No.: n.n. 13	CA3 NO.: 9003-90-9
	13 mL RNase-free H <sub>2</sub> O Chemical: water		CAS No.: 7732-18-5
	Persistence and degradabilinot necessary	ity	
	Bioaccumulative potential not necessary		
	Mobility in soil not necessary		
2.5 I	Results of PBT and vPvB as no data available	ssessment	
	Other adverse effects		



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### 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). Or collect in solvent waste (waste code number 07 07 04).

#### 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 name: Flammable liquid, n.o.s. (1,4-dioxane mixture) Packing group: II
Road transport		
Classification code:	F1	
Limited Quantity:	1 L	Tunnel restriction code: E
Excepted Quantity: Air transport	E 2	Special instructions: 640C
PAX:	353	max. weight PAX: 5 L
CAO: Maritime transport	364	max. weight CAO: 60 L
EmS:	F-E, S-E	Storage category: B

#### 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. 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 rolevant H phrases

10.1.1		
	H225	Highly flammable liquid and vapour.
	H304	May be fatal if swallowed and enters airways.
	H319	Causes serious eye irritation.
	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	H335	May cause respiratory irritation.
	H351	Suspected of causing cancer.
16.1.2	List of relevant	P phrases
	P201	Obtain special instructions before use.
	P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
	P233	Keep container tightly closed.
	P261sh	Avoid breathing dust/vapours.
	P280sh	Wear protective gloves/eye protection.
	P301+310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
	P304+340	IF INHALED: Remove person to fresh air and keep comfortable for breathing



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P331 Do NOT induce vomiting. P342+311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor. P403+233

Store in a well-ventilated place. Keep container tightly closed.

#### 16.2 Training advice

Multiple safety training of staffs about danger and protection by using hazards in working area. Additionally training and introduction of staffs for using these products.

#### 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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#### 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 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

