MACHEREY-NAGEI



Safety Data Sheet

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

REF: 740300.10	NucleoSnap cfDNA (10)	Page: 1/14
Printing date: 12.05.2021	Date of issue: 22.07.2020	

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

1.1	Product identifier	
	REF 7	40300.10
		lucleoSnap cfDNA (10)
		ee SECTION 3.1/3.2 or re(s) does not exist because the annual tonnage does not require registration or om registration.
		x 13 mL CC x 13 mL Elution Buffer x 800 µL Liquid Proteinase K x 60 mL VL x 13 mL VW1 x 10 mL WB
1.2	Relevant identified uses Product for analytical use.	substance or mixture and uses advised against on according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0 rated into sections 1-16.
1.3	Details of the supplier of the saf Manufactured by: MACHEREY-NAGEL GmbH & Co. KC Valencienner Str. 11, 52355 Düren, G Tel.: +49 2421 969 0	
1.4	Emergency telephone number	
		onal Poisons Information Service or call local Life Saving Service. htrum (GGIZ) 99089 Erfurt tel. +49 361 730 730
	You find our current versions of SDS (22 langua	ges) in Internet: http://www.mn-net.com/SDS
SEC	TION 2: Hazard identification	

2.0 Classification of the complete product



Signal word DANGER Hazard identification Hazard classes/categories Flam. Liq. 2 H225 H226 Flam. Liq. 3 H290 Met. Corr. 1 H302 Acute Tox. 4 oral H315 Skin Irrit. 2 H319 Eye Irrit. 2 STOT SE 3 H336

Classification of the substance or mixture 2.1

13 mL CC

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	GHS07
Signal word	WARNING
Hazard identification	Hazard classes/categories
H290 H315 H319	Met. Corr. 1 Skin Irrit. 2 Eye Irrit. 2
13 mL Elution Buffer	
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	
60 mL VL	
	$\langle \mathbf{i} \rangle$
	GHS07
Signal word	WARNING
Hazard identification	Hazard classes/categories
H302 H315 H319	Acute Tox. 4 oral Skin Irrit. 2 Eye Irrit. 2
13 mL VW1	
	GHS02 GHS07
Signal word	WARNING
Hazard identification	Hazard classes/categories
H226 H302 H319 H336	Flam. Liq. 3 Acute Tox. 4 oral Eye Irrit. 2 STOT SE 3
10 ml W/B	

10 mL WB



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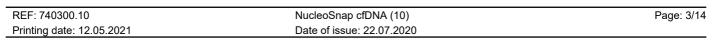
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	GHS02
Signal word	DANGER
Hazard identification	Hazard classes/categories
H225	Flam. Liq. 2

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).

Metal corrosive solutions do not have to be labelled with GHS symbol, signal word, H and P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2.1.3).

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

13 mL CC



Signal word: WARNING

13 mL Elution Buffer

Do not need labelling as hazardous Signal word: -

800 µL Liquid Proteinase K

Do not need labelling as hazardous Signal word: -

60 mL VL



Signal word: WARNING

13 mL VW1



10 mL WB



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Signal word: DANGER

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

13 mL CC

	Chemical: potassi Classification: Formula: TSCA Inventory: REACH Reg. No.: EC No.: KE No.: Concentration:	ium hydroxide solution H290, Met. Corr. 1, H302, Acute To KOH•H ₂ O listed 01-2119487136-33-xxxx 215-181-3 TT2100000 KE-29139, >5% Toxic 97-1-137 0.5 - <1 %	x. 4 oral, H314, Skin C Indice No.:	CAS No.: 1310-58-3 orr. 1B 019-002-00-8
	acc. CLP (GHS):	H290, Met. Corr. 1, H315, Skin Irrit.	2, H319, Eye Irrit. 2	
13 mL E	lution Buffer Chemical: chemic Classification: TSCA Inventory: KE No.: Concentration: acc. CLP (GHS):	cals/mixture < 1% No criteria for classification or naming of cher all listed, <1% listed 0.1 - <1 % The criteria for classification are not fulfilled.	mical not required.	CAS No.: -
800 µL L	iquid Proteinase K Chemical: protein Classification: Formula: TSCA Inventory: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS):	ase K, liquid (origin: tritirachium albu, H315, Skin Irrit. 2, H319, Eye Irrit. 2 Enzyme Comm. No. 3.4.21.64,origin: listed (CAS 102925-54-2) 254-457-8 - not listed 1 - <3 % The criteria for classification are not fulfilled.	, H334, Resp. Sens. 1	CAS No.: 39450-01-6l 647-014-00-9 00132129
	Chemical: glycero Classification: Formula: Pseudonym: TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS):	No criteria for classification or naming of cher C ₃ H ₈ O ₃ glycerin, 1,2,3-propanetriol listed (1,2,3-Propanetriol) 01-2119471987-18-xxxx 200-289-5 MA8050000 KE-29297 50 - <80 % The criteria for classification are not fulfilled.	mical not required. Indice No.: MFCD:	CAS No.: 56-81-5 n/a 00004722

60 mL VL



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REF: 740300.10		NucleoSnap cfD			Page: 5/1
Printing date: 12.05.20	21	Date of issue: 22	2.07.2020		
	Classification: Formula: Pseudonym: TSCA Inventory:	dine hydrochloride H302, Acute Tox. 4 oral, H315 CH ₆ CIN ₃ guanidinium chloride listed	5, Skin Irrit. 2, H319, Eye I	CAS No.: 50-01-1 rrit. 2	
	REACH Reg. No.: EC No.: RTECS: KE No.: Concentration:	01-2119977063-35-0005 200-002-3 MF4300000 KE-18111 50 - <66 %	Indice No.: MFCD:	607-148-00-0 00013026	
	acc. CLP (GHS):	H302, Acute Tox. 4 oral, H315	o, Skin Irrit. 2, H319, Eye i	rrit. 2	
13 mL \	/W1				
	Chemical: guani Classification: Formula: Pseudonym: TSCA Inventory: REACH Reg. No.:	dine hydrochloride H302, Acute Tox. 4 oral, H315 CH ₆ CIN ₃ guanidinium chloride listed 01-2119977063-35-0005	5, Skin Irrit. 2, H319, Eye I	CAS No.: 50-01-1 rrit. 2	
	EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS):	200-002-3 MF4300000 KE-18111 36 - <50 % H302, Acute Tox. 4 oral, H319	Indice No.: MFCD: 9, Eye Irrit. 2	607-148-00-0 00013026	
	Chemical: 2-proj Classification: Formula: Pseudonym: TSCA Inventory:	H225, Flam. Liq. 2, H319, Eye C_3 H ₈ O isopropanol, IPA, propan-2-ol listed	e Irrit. 2, H336, STOT SE 3	CAS No.: 67-63-0	
	REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS):	01-2119457558-25-XXXX 200-661-7 NT8050000 KE-29363 20 - <35 % H226, Flam. Liq. 3, H319, Eye	Indice No.: MFCD: e Irrit. 2, H336, STOT SE 3	603-117-00-0 00011674	
10 mL V	Chemical: ethan	ol atured with 1%IPA/1%MEK, acc. H225, Flam. Liq. 2 C ₂ H ₆ O; C ₂ H ₅ OH ethyl alcohol, methylated spirit		CAS No.: 64-17-5	
	TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS):	listed	Indice No.: MFCD:	603-002-00-5 00003568	
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.

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4.1.2	After EYE Contact After contact with the eyes rin running water (protect intact e	se thoroughly under running water with the eyelid wide open with eye ye).	washing bottle, eye douche or
4.1.3	After INHALATION of vapou After inhalation of foam or vap	rs our fresh air should be inhaled. Keep airways free	
4.1.4	After ORAL Intake After oral intake lots of water s	should be drunk after it has been ingested	
4.2	Most important symptoms	s and effects, both acute and delayed	
4.3	Indication of any immedia No additionally recommendations.	te medical attention and special treatment needed	
SECT	ION 5: Firefighting mea	sures	
5.1	Extinguishing media		
	Fire extinguishers appropriate to the	ne fire classification, and, if applicable, a fire blanket must be available DAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be us	
5.2		om the substance or mixture	
	Forms explosive vapour-air mixture	llation). May form explosive vapour-air mixtures. DANGER: Highly flar es. Formation of hazardous and caustic vapour-air mixtures possible.	
5.3	Advice for firefighters No, for listed product. Product pack	kage hurne like paper or plastic	
5.4	Additional information	Rage burns like paper of plastic.	
5.4			
SECT	ION 6: Accidental relea	se measures	
6.1	Personal precautions, pro Do not breathe vapours. Regular s	tective equipment and emergency procedures taff training is necessary.	
6.2	Environmental precaution not necessary	IS	
6.3	Bind any escaping liquid with inert	containment and cleaning up absorbent. juid and flush with water into drains.	
6.4	Reference to other section	ns	
SECT	ION 7: Handling and st	orage	
7.1	Precautions for safe hand	ling	
	Handling in accordance with the te	st instruction, that comes with the product.	
7.2		ge, including any incompatibilities ACHEREY-NAGEL allows a safe storage. 3 1	
7.2.1	Requirements for stock room Keep original product package	ms and containers es tightly closed during handling and storage.	



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		re controls/personal protection		
	ontrol paramet			
	13 mL CC Chemical: po DNEL: DNEL = De SUVA(CH) MAK NIOSH:	<i>tassium hydroxide solution</i> 1 _{inh} mg/m³ rived No-Effect Level (for workers)	CAS No.: 1310-58-3	
	13 mL Elution B Chemical: <i>ch</i>	emicals/mixture < 1%	CAS No.: -	
	800 µL Liquid P Chemical: pro SUVA(CH) MAK	oteinase K, liquid (origin: tritirachium album)	CAS No.: 39450-01-61	
	DNEL: DNEL = Del PNEC(fresh water) PNEC = Pre TRGS 900 (DE): Short-term expos	E/e respirable sure factor: 2 (I), Y	CAS No.: 56-81-5	
	SUVA(CH) MAK 60 mL VL	tive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), te value: 50 e* mg/m ³ vanidine hydrochloride [inh] 3.5 mg/m ³	CAS No.: 50-01-1	
	DNEL = Der PNEC (fresh water) PNEC = Pre NIOSH:	rived No-Effect Level (for workers)	ort-term exposure limit related to a 15-minute period	
	DNEL: DNEL = Del	anidine hydrochloride [inh] 3.5 mg/m³ rived No-Effect Level (for workers)	CAS No.: 50-01-1	
	NIOSH:	: edicted No Effected Concentration not listed -weighted average to a reference period of 8 hours, [STEL] Sh not listed	ort-term exposure limit related to a 15-minute period	
	DNEL:	propanol [inh] 500 mg/m³ rived No-Effect Level (for workers)	CAS No.: 67-63-0	
		: 140.9 mg/L edicted No Effected Concentration		
		sure factor: 2 (II), Y tive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), te	eratogenic (Z) not securely excluded / (Y) certainly excluded	
	TRGS 903 (DE):	[Aceton B/b, U/b] 25 mg/L B blood, U urine, a no limitation, b end of ex	position or shift	
	NIOSH S [TWA] Time	-weighted average to a reference period of 8 hours, [STEL] Sh	ort-term exposure limit related to a 15-minute period	
	OSHA:	[TWA] 400 ppm / 980 mg/m ³		



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REF: 74	0300.10	NucleoSnap cfDNA (10)	Page: 8/14
Printing date: 12.05.2021		Date of issue: 22.07.2020	
	10 mL WB Chemical: <i>ethanol</i> DNEL: DNEL = Derived No-	[derm] 343 mg/kg; [inh] 950 mg/m³ Effect Level (for workers)	CAS No.: 64-17-5
	PNEC _(fresh water) : PNEC = Predicted N	0.96 mg/L c Effected Concentration	
	TRGS 900 (DE):	200 mL/m³ / 380 mg/m³ E/e respirable	
	Short-term exposure fac skin resorptive (H),	respiratory sensitizable (Sa), skin sensitizable (Sh), teratoger	nic (Z) not securely excluded / (Y) certainly excluded
	SUVA(CH) MAK value: NIOSH: [TWA] Time-weighter	500 ppm / 960 mg/m ³ [TWA] 1000 ppm / 1900 mg/m ³ d average to a reference period of 8 hours, [STEL] Short-term	exposure limit related to a 15-minute period
	OSHA:	[TWA] 1000 ppm / 1900 mg/m ³	
8.2.1	Good ventilation and extracti level of cleanliness must be Respiratory protection No additional recommer	maintained at the workplace.	Is with floor drainage and washing facilities. The highest
8.2.2	Hand protection Yes, gloves according E		st of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansell
8.2.3	Eye protection	ording EN 166 with integrated side shields or wra	
8.2.4	Skin protection Not necessary.		
8.2.5	with the skin, eyes and o		and at outdoor workplaces is prohibited. Avoid contact ice has been spilled, and soak it in water. Wash hands nd then apply protective skin cream.
SECT	ION 9: Physical and	chemical properties	

9.1 Information on basic physical and chemical properties

13 mL CC Appearance: liquid pH: Specific gravity:	Colour: colourless 13 1,005 g/cm³	Odor: odorless
13 mL Elution Buffer Appearance: liquid pH: Specific gravity:	Colour: colourless 8-9 1.0 g/cm³	Odor: odorless
800 μL Liquid Proteinase K Appearance: liquid pH: Specific gravity: Solubility in water:	Colour: colourless 7-8 1.1 g/cm³ 0-100 %	Odor: odorless
60 mL VL Appearance: liquid pH: Specific gravity:	Colour: colourless 4.5-5.2 1.18 g/cm³	Odor: odorless
13 mL VW1 Appearance: liquid pH: Flash point: Specific gravity:	Colour: colourless 7-8 25 °C 1.06 g/cm³	Odor: alcoholic

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10 mL WB

Appearance: liquid pH: Flash point: Specific gravity:

Colour: colourless 7-8 10 °C 0.91 g/cm³

Odor: alcoholic

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.
- 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.

13 mL CC

Chemical:	ootassium hydroxide solution	CAS No.: 1310-58-3
TSCA Inventory:	listed Ca	alifornia Proposition 65 List: not listed
Exposure Routes:	inhalation, ingestion, ski	n and/or eye contact
Target Organs:	Eyes, skin, respiratory s	/stem
Symptoms:	irritation eyes, skin, resp	iratory system; cough, sneezing; eye, skin burns; vomiting, diarrhea
Australia NICNAS:	not listed	Canada CEPA 1999: DSL Yes
Japan CSCL/PRTR:	not listed, Japan PDSCL	: Deleterious Substance
Japan ISHL:	listed ≥1,0%/≥1,0%, Arti	cle 57-2 (SDS required)
South Korea TCCA:	not listed	
Korea Exist.Chem.Inv	entory: KE-29139, >5% Toxic 97	7-1-137
LD50 _{orl rat} :	273	

13 mL Elution Buffer

Chemical:	chemicals/mixture < 1%	CAS No.: -
TSCA Inventory:	all listed, <1%	
Korea Exist.Chem.In	ventory: listed	

800 µL Liquid Proteinase K

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



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REF: 740300.1 Printing date: 1				Snap cfDNA issue: 22.07			Page: 10
uuto.			Bate of				
	Chemical:	glycero			(CAS No.:	56-81-5
	TSCA Inventory:		listed (1,2,3-Propanetri				
	Exposure Routes:		inhalation, skin and/or e				
	Target Organs:		Eyes, skin, respiratory				
	Symptoms:				tem; headache, nausea, v	vomiting;	kidney injury
	Japan CSCL/PRTR:		not listed, Japan PDSC	CL: not listed			
	Japan ISHL:		not listed				
	Korea Exist.Chem.Inv	entory:					
	LD50 _{orl rat} : LD50 _{drm rbt} :		12.6 g/kg >18.7 g/kg				
	TRGS 905 (DE):		R _F C				
60 !	mL VL						
	Chemical:	guanid	ine hydrochloride		(CAS No.:	50-01-1
	TSCA Inventory:		listed C	California Pro	oposition 65 List: not liste	ed	
	Australia NICNAS:		not listed		da CEPA 1999: DSL yes	S	
	Japan CSCL/PRTR:		not listed, Japan PDSC	CL: not listed			
	Japan ISHL:		not listed				
	South Korea TCCA:		not listed				
	Korea Exist.Chem.Inv	ventory:	KE-18111				
	LD50 _{orl rat} :		475-907 mg/kg				
	LC50 _{ihl rat} :		[4h] 3181-7655 µg/m ³				
	LD50 _{drm rbt} :		2000 mg/kg				
	Acute Effects: Cause	after or	al intake, impairments o	of health whe	n ingested in small quant	tities.	
13 /	mL VW1						
	Chemical:	guanid	ine hydrochloride		(CAS No.:	50-01-1
	TSCA Inventory:	0	listed 0	California Pro	oposition 65 List: not liste	ed	
	Australia NICNAS:		not listed	Cana	da CEPA 1999: DSL yes	s	
	Japan CSCL/PRTR:		not listed, Japan PDSC		,		
	Japan ISHL:		not listed				
	South Korea TCCA:		not listed				
	Korea Exist.Chem.Inv	ventory:	KE-18111				
	LD50 _{orl rat} :		475-907 mg/kg				
	LC50 _{ihl rat} :		[4h] 3181-7655 µg/m ³				
	LD50 _{drm rbt} :	<i>.</i> .	2000 mg/kg				
	Acute Effects: Cause	after or	al intake, impairments o	of health whe	n ingested in small quant	tities.	
	Chemical:	2-propa				CAS No.:	67-63-0
	TSCA Inventory:			California Pro	oposition 65 List: not liste	ed	
	ACGIH:		1230 ppm				
	Exposure Routes:		inhalation, ingestion, sk		e contact		
	Target Organs:		Eyes, skin, respiratory	system			
	Symptoms:		irritation eyes, nose, the	roat; drowsir			cking skin; in animals: narcosi
	Australia NICNAS:				da CEPA 1999: DSL yes	s	
	Japan CSCL/PRTR:		PAC yes, Japan PDSC				
	Japan ISHL:		listed ≥1,0%/≥0,1%, Ar	ticle 57-2 (S	DS required)		
	South Korea TCCA:						
	Korea Exist.Chem.Inv	entory:					
	LD50 _{orl rat} :		5045 mg/kg				
	LC Loworl hmn:		3570 mg/kg				
	LC50 _{ihl rat} :		16 _{4h} g/m³				
	LD50 _{drm rbt} :		12.8 g/kg				
	TRGS 905 (DE):		R _F C				
10 /	mL WB						
	Chemical:	ethano	I		(CAS No.:	64-17-5
	TSCA Inventory:			California Pro	oposition 65 List: not liste		
	ACGIH:		1000 ppm				
	Exposure Routes:		inhalation, ingestion, sk				
	Target Organs:		Eyes, skin, respiratory	system, cen	tral nervous system, liver		
	Symptoms:			se; headach	e, drowsiness, lassitude ((weaknes	s, exhaustion), narcosis; coug
	liver damage; anemia	; reproc					
	Australia NICNAS:		not listed		da CEPA 1999: DSL yes	s	
	Japan CSCL/PRTR:		not listed, Japan PDSC	CL: not listed			
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		1/2		0 0 =====			
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	40300.10) date: 12.05.2021	NucleoSnap cfDNA (10 Date of issue: 22.07.20	
Finang	Juale. 12.03.2021	Date of issue. 22.07.20	20
	Japan ISHL: South Korea TCCA: Korea Exist.Chem.Inven LD50 _{orl rat} : LC_LoWihl gpg : LC_LoWorl hmn : LC50ihl mouse : LC50ihl rat : LD50drm rbt : LD50oral mouse :	listed ≥0,1%/≥0,1%, Article 57-2 (SDS not listed cory: KE-13217 6200 mg/kg 21.9 g/m³ 1400 mg/kg [4h] 39 g/m³ [10h] 20 g/m³ 20 000 mg/kg 3450 mg/kg	required)
	TRGS 905 (DE):	K5, M5, R _F C	
SECT	ION 12: Ecological i	nformation	
2.1	Toxicity		
2.1	Following information is va	lid for pure substances	
	13 mL CC		
	Chemical: LC50 _{pimephales prom} Water hazard class Storage class (VCI)	(DE): 1 WGK No.: 0345	CAS No.: 1310-58-3
	13 mL Elution Buffer Chemical:	chemicals/mixture < 1%	CAS No.: -
	Water hazard class Storage class (VCI)	(DE): 1	
	800 µL Liquid Proteina		
	Chemical: Water hazard class Storage class (VCI)		oum) CAS No.: 39450-01-61
	Chemical: PNEC(fresh water) : PNEC = Predicted No Ef	glycerole 0.885 mg/L ected Concentration	CAS No.: 56-81-5
	LC50 _{fish/96h} : EC50 _{daphnia/48h} : IC50 _{scenedesmus} qua EC10 _{pseudomonas} pu Water hazard class Dispersion coefficie Storage class (VCI)	ita/16h : EC5: >10 g/L (DE): 0 nt(octanol-water) : -1.76	
	60 mL VL		
	Chemical: PNEC(fresh water) : PNEC = Predicted No Ef	guanidine hydrochloride ected Concentration	CAS No.: 50-01-1
	LC50leuciscus idus/96l LC50fish/96h : EC50daphnia/48h : EC10pseudomonas pu Water hazard class Storage class (VCI)	[4d] 690-1850; [48h] 1758 70.2 mg/L ita/16h : [72h] 11.8-33.5 mg/L (DE): 1 WGK No.: 0788	2420 mg/L
	13 mL VW1		
	Chemical: PNEC(fresh water) : PNEC = Predicted No Ef	guanidine hydrochloride ected Concentration	CAS No.: 50-01-1
	LC50leuciscus idus/96l LC50fish/96h : EC50daphnia/48h : EC10pseudomonas pu Water hazard class	[4d] 690-1850; [48h] 1758- 70.2 mg/L _{ita/16h} : [72h] 11.8-33.5 mg/L	2420 mg/L
	water nazaro class	(DE). I VVGK NO.: U/88	



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	Storage class (VCI):	12	
	Chemical: 2-propanol		CAS No.: 67-63-0
	PNEC (fresh water) : PNEC = Predicted No Effected Concentration		
	LC50 _{fish/96} h : EC50 _{daphnia} /48h :	1400 mg/L 13.3 g/L	
	IC50scenedesmus quadricauda/72h	>1000 mg/L	
	EC10pseudomonas putita/16h	EC5: 1050 mg/L	
	Water hazard class (DE): Dispersion coefficient _(octanol-water) :	1 WGK No.: 0135 0.05	
	Storage class (VCI):	3	
	10 mL WB		CAS No. : 64 17 5
	Chemical: ethanol PNEC(fresh water) : PNEC = Predicted No Effected Concentration	0.96 mg/L	CAS No.: 64-17-5
	LC50daphnia magna/48h	>100 mg/L	
	LC50pimephales promelas/96h: LC50leuciscus idus/96h:	13400 - 15100 mg/L [48h] 8140 mg/L	
	LC50 _{fish/96h} :	13 g/L	
	EC50 _{daphnia/48h} :	9.3-14.2 g/L	
	IC50 _{scenedesmus} quadricauda/72h	[7d] 5000 mg/L	
	EC10 _{pseudomonas putita/16h} : Water hazard class (DE):	[EC5] 6500 mg/L 1 WGK No.: 0096	
	Dispersion coefficient _(octanol-water) : Storage class (VCI):		
2.2	Persistence and degradability not necessary		
2.3	Bioaccumulative potential		
2.5	not necessary		
2.4	Mobility in soil not necessary		
2.5	Results of PBT and vPvB assess no data available	ment	
2.6	Other adverse effects no additional data available		
SECT	ION 13: Disposal consideration	ons	
Р	•	d disposal of hazardous waste and contac	t waste disposal company, where you will obtain
3.1	Waste treatment methods	,	
	Normally it is possible to empty small amour	nts (diluted!) into drains	

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

01		
14.1 UN number:	1993 1	4.2 UN proper shipping name: Flammable liquid, n.o.s. (ethanol, 2-propanol mixture)
14.3 Class:	3 1	4.4 Packing group: II
Road transport		
Classification code:	F1	
Limited Quantity:	1 L	Tunnel restriction code: E
Excepted Quantity:	E 2	Special instructions: 640C
Air transport		
PAX:	353	max. weight PAX: 5 L
CAO:	364	max. weight CAO: 60 L
Maritime transport		
EmS:	F-E, S-E	E Storage category: B

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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

	-	
6.1.1	List of relevant	H phrases
	H225	Highly flammable liquid and vapour.
	H226	Flammable liquid and vapour.
	H290	May be corrosive to metals.
	H302	Harmful if swallowed.
	H315	Causes skin irritation.
	H319	Causes serious eye irritation.
	H336	May cause drowsiness or dizziness.
6.1.2	List of relevant	P phrases
	P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
	P233	Keep container tightly closed.
	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.
	P330	Rinse mouth.
	P390	Absorb spillage to prevent material damage.

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.

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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

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SUVA .CH, Limits in air at work 2009, revised on 01.2009 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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