IACHEREY-NAGEI



Safety Data Sheet

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

REF: 744945.1	NucleoMag DNA Food (1x96)	Page: 1/18
Printing date: 12.05.2021	Date of issue: 20.04.2021	

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

1.1 **Product identifier**

> REF Product name

744945.1 NucleoMag DNA Food (1x96)

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.

> 2 x 1.5 mL B-Beads 1 x 100 mL CB 1 x 30 mL CE 1 x 100 mL CF 1 x 100 mL CMW 1 x 125 mL CQW 1 x 1.25 mL Liquid Proteinase K

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

Hazard identification	Hazard classes/categories
H226	Flam. Liq. 3
H302	Acute Tox. 4 oral
H315	Skin Irrit. 2
H318	Eye Dam. 1
H319	Eye Irrit. 2
H336	STOT SE 3
H411	Aquatic Chronic 2
H412	Aquatic Chronic 3

DANGER



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http://www.mn-net.com/SDS

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

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MACHEREY-NAGEI



Safety Data Sheet

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

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2.1 Classification of the substance or mixture

1.5 mL B-Beads

Do not need labelling as hazardous

No hazard class

Signal word

100 mL CB

	GHS02 GHS05 GHS07 GHS09
Signal word	DANGER
Hazard identification	Hazard classes/categories
H226 H302 H315 H318 H319 H336 H411	Flam. Liq. 3 Acute Tox. 4 oral Skin Irrit. 2 Eye Dam. 1 Eye Irrit. 2 STOT SE 3 Aquatic Chronic 2
30 mL CE	
Signal word	Do not need labelling as hazardous -
No hazard class	
100 mL CF	
Signal word	Do not need labelling as hazardous -
No hazard class	
100 mL CMW	
Signal word	GHS02 GHS07 WARNING
Hazard identification	Hazard classes/categories
H226 H302 H412	Flam. Liq. 3 Acute Tox. 4 oral Aquatic Chronic 3
125 mL CQW	



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GHS02

GHS07

FR: Tel.: +33 388 68 22 68 Fax: +33 388 51 76 88 E-mail: sales-fr@mn-net.com www.mn-net.com

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



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

	NucleoMag DNA Food (1x96)	Page: 3/1
021	Date of issue: 20.04.2021	
Signal word	WARNING	
azard identification	Hazard classes/categories	
226	Flam. Liq. 3	
	Signal word	Signal word WARNING zard identification Hazard classes/categories 226 Flam. Liq. 3

Signal word

Do not need labelling as hazardous

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).

1.5 mL B-Beads

Do not need labelling as hazardous Signal word: -

100 mL CB



Signal word: DANGER

H318 Causes serious eye damage.

P280sh, P305+351+338, P310 Wear protective gloves/eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

30 mL CE

Do not need labelling as hazardous Signal word: -

100 mL CF

Do not need labelling as hazardous Signal word: -

100 mL CMW



Signal word: WARNING

H412 Harmful to aquatic life with long lasting effects.

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Signal word: WARNING

1.25 mL Liquid Proteinase K

Do not need labelling as hazardous Signal word: -

2.3 Other hazards

Possible hazards from physicochemical properties

Generally in the case of pH values are less than 2 or higher than 11.5 then it is corrosive. 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

Causes varying degrees of acid burns on the skin, to the eyes and to the mucous membranes and wounds which do not heal quickly depending on the concentration, temperature and the exposure time. Vapours especially which steam from hot liquids and mist can have a severe irritant effect upon the eyes and the respiratory organs. 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

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

1.5 mL B-Beads

Chemical: magn	etic particles, suspended in water	CAS No.: -
Classification:	No criteria for classification or naming of chemical not required.	
TSCA Inventory:	listed (CAS 1309-38-2)	
Concentration:	1 - <15 %	
acc. CLP (GHS):	The criteria for classification are not fulfilled.	

100 mL CB

۱L	СВ			
	Chemical: guanidi	ine hydrochloride		CAS No.: 50-01-1
	Classification:	H302, Acute Tox. 4 oral, H315, Skin	Irrit. 2, H319, Eye Irrit.	2
	Formula:	CH ₆ CIN ₃	-	
	Pseudonym:	guanidinium chloride		
	TSCA Inventory:	listed		
	REACH Reg. No.:	01-2119977063-35-0005		
	EC No.:	200-002-3	Indice No.:	607-148-00-0
	RTECS:	MF4300000	MFCD:	00013026
	KE No.:	KE-18111		
	Concentration:	10 - <18 %		
	acc. CLP (GHS):	The criteria for classification are not fulfilled.		



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EF: 744945.1 rinting date: 12.05.20)21	NucleoMag DNA Foo Date of issue: 20.04.	· · ·		Page: 5/18
				0401	
	Chemical: 2-prop Classification:	panol H225, Flam. Liq. 2, H319, Eye Irrit.	2 H336 STOT SE 3	CAS No.: 67-63-0	
	Formula:	C ₃ H ₈ O	2,11000,0101020		
	Pseudonym:	isopropanol, IPA, propan-2-ol			
	TSCA Inventory:	listed			
	REACH Reg. No.:	01-2119457558-25-XXXX			
	EC No.:	200-661-7	Indice No.:	603-117-00-0	
	RTECS:	NT8050000	MFCD:	00011674	
	KE No.:	KE-29363			
	Concentration:	35 - <50 %			
	acc. CLP (GHS):	H226, Flam. Liq. 3, H319, Eye Irrit	. 2, H336, STOT SE 3		
	Chemical: Triton	® X-114		CAS No.: 9036-19-5	
	Classification:	H302, Acute Tox. 4 oral, H315, Sk	in Irrit. 2, H318, Eye Da		
	Formula:	C ₃₀ H ₅₄ O ₉			
	Pseudonym:	Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbuty	/l)phenyl]omegahydroxy-	
	TSCA Inventory:	listed			
	SVHC listed:	listed			
	EC No.:	232-658-1			
	RTECS: KE No.:	RI0720000 KE-33567			
	Concentration:	15 - <25 %			
	acc. CLP (GHS):	H302, Acute Tox. 4 oral, H315, Sk	in Irrit. 2, H318, Eye Da	am. 1, H411, Aquatic Chronic 2	
30 mL					
		icals/mixture < 1%		CAS No.: -	
	Classification:	No criteria for classification or naming of ch	emical not required.		
	TSCA Inventory: KE No.:	all listed, <1%			
	Concentration:	listed 0.1 - <1 %			
	acc. CLP (GHS):	The criteria for classification are not fulfilled			
100 mL	. CF				
	Chemical: dodeo	cyl sulfate, sodium salt		CAS No.: 151-21-3	
	Classification:	H228, Flam. Sol. 1, H302, Acute T	ox. 4 oral, H315, Skin I	rrit. 2, H318, Eye Dam. 1, H332	, Acute
		TOT SE 3, H412, Aquatic Chronic 3			
	Formula:	C ₁₂ H ₂₅ NaO ₄ S			
	Pseudonym:	sodium lauryl sulfate, sulfuric acid	monododecyl ester soc	lium salt	
	TSCA Inventory:	listed			
	REACH Reg. No.: EC No.:	01-2119489461-32-xxxx 205-788-1			
	RTECS:	WT1050000	MFCD:	00036175	
	KE No.:	KE-21884	WII CD.	00030175	
	Concentration:	1 - <2.5 %			
	acc. CLP (GHS):	The criteria for classification are not fulfilled			
	Chemical: chemi Classification:	icals/mixture < 2%		CAS No.: -	
	TSCA Inventory:	No criteria for classification or naming of ch all listed, <2%	emical not required.		
	KE No.:	listed			
	Concentration:	1 - <2 %			
	acc. CLP (GHS):	The criteria for classification are not fulfilled			
100 mL		dine hydrochloride		CAS No.: 50-01-1	
	Classification:	H302, Acute Tox. 4 oral, H315, Sk	in Irrit 2 H319 Eve Irri		
	Formula:	CH ₆ ClN ₃			
	Pseudonym:	guanidinium chloride			
	TSCA Inventory:	listed			
	REACH Reg. No.:	01-2119977063-35-0005			
	EC No.:	200-002-3	Indice No.:	607-148-00-0	
	RTECS:	MF4300000	MFCD:	00013026	
	KE No.:	KE-18111			
	Concentration:	24 - <36 %			
		LINE Aguto Lov Agrol			
	acc. CLP (GHS):	H302, Acute Tox. 4 oral			
		H302, Acute Tox. 4 oral			
		nouz, Acute Tox. 4 orai			

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REF: 744945.1	24	NucleoMag DNA	()	Pag	ge: 6/18
Printing date: 12.05.202	21	Date of issue: 20	.04.2021		
	Classification:	endinitrilo tetraacetic acid (EDTA) H319, Eye Irrit. 2, H412, Aqua		CAS No.: 60-00-4	
	Formula: Pseudonym: TSCA Inventory:	C ₁₀ H ₁₆ N ₂ O ₈ Edetic acid, Glycine, N,N'-1,2- listed	ethanediylbis[N-(carbox	ymethyl)-	
	REACH Reg. No.:	01-2119486399-18-xxxx			
	RTECS: KE No.:	AH4025000 KE-13648	MFCD:	0003541	
	Concentration: acc. CLP (GHS):	0.1 - <1 % The criteria for classification are not fu	lfilled.		
	Chemical: ethan	ol		CAS No.: 64-17-5	
		atured with 1%IPA/1%MEK, acc.2	2016/1867/EU)		
	Classification:	H225, Flam. Liq. 2			
	Formula:	C ₂ H ₆ O; C ₂ H ₅ OH			
	Pseudonym:	ethyl alcohol, methylated spirit			
	TSCA Inventory: REACH Reg. No.:	listed 01-2119457610-43-xxxx			
	EC No.:	200-578-6	Indice No.:	603-002-00-5	
	RTECS:	KQ6300000	MFCD:	00003568	
	KE No.:	KE-13217		000000	
	Concentration:	35 - <55 %			
	acc. CLP (GHS):	H226, Flam. Liq. 3			
		/droxymethyl)aminomethane		CAS No.: 77-86-1	
	Classification: Formula:	No criteria for classification or naming C4 H ₁₁ NO ₃			
	Pseudonym: TSCA Inventory:	Trometamol, 2-amino-2-(hydro listed	oxymethyl)-1,3-propane	diol	
	REACH Reg. No.:	01-2119957659-16-0014			
	EC No.:	201-064-4			
	RTECS:	TY2900000	MFCD:	00004679	
	KE No.:	KE-01403			
	Concentration:	< 0.10 %			
	acc. CLP (GHS):	The criteria for classification are not fu	lfilled.		
		® X-114		CAS No.: 9036-19-5	
	Classification: Formula:	C ₃₀ H ₅₄ O ₉		e Dam. 1, H410, Aquatic Chronic 1	
	Pseudonym: TSCA Inventory:	Poly(oxy-1,2-ethanediyl), .alph listed	a[(1,1,3,3-tetramethyl	butyl)phenyl]omegahydroxy-	
	SVHC listed:	listed			
	EC No.:	232-658-1			
	RTECS:	RI0720000			
	KE No.:	KE-33567			
	Concentration:	0.25 - <2.5 %			
	acc. CLP (GHS):	H412, Aquatic Chronic 3			
125 mL		dina hudroahlarid-		CAS No : 50 04 4	
	Chemical: guani Classification:	dine hydrochloride	Skin Irrit 2 U210 Fu	CAS No.: 50-01-1	
	Formula:	H302, Acute Tox. 4 oral, H315 CH ₆ ClN ₃	, JAIII IIIII. 2, 1319, EY	5 IIII. Z	
	Pseudonym:	guanidinium chloride			
	TSCA Inventory:	listed			
	REACH Reg. No.:	01-2119977063-35-0005			
	EC No.:	200-002-3	Indice No.:	607-148-00-0	
	RTECS:	MF4300000	MFCD:	00013026	
	KE No.:	KE-18111			
	Concentration:	24 - <36 %			
	oonoonaaaon.				



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REF: 744945.1		NucleoMag DNA Fo	od (1x96)		Page: 7/18
Printing date: 12.05.2	021	Date of issue: 20.04	.2021		
	Chemical: ethan (dena Classification: Formula: Pseudonym:	ol atured with 1%IPA/1%MEK, acc.201 H225, Flam. Liq. 2 C ₂ H ₆ O; C ₂ H ₅ OH ethyl alcohol, methylated spirit	6/1867/EU)	CAS No.: 64-17-5	
	TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS):	listed 01-2119457610-43-xxxx 200-578-6 KQ6300000 KE-13217 35 - <55 % H226, Flam. Liq. 3	Indice No.: MFCD:	603-002-00-5 00003568	
1.25 m	L Liquid Proteinase I Chemical: protei Classification: Formula:	K inase <i>K, liquid (origin: tritirachium alk</i> H315, Skin Irrit. 2, H319, Eye Irrit. Enzyme Comm. No. 3.4.21.64, _{orig}	. 2, H334, Resp. Sen	CAS No.: 39450-01-6l Is. 1	
	TSCA Inventory: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS):	listed (CAS 102925-54-2) 254-457-8 - not listed 1 - <3 % The criteria for classification are not fulfille	Indice No.: MFCD:	647-014-00-9 00132129	
	Chemical: <i>glyce</i> Classification: Formula:	No criteria for classification or naming of c $C_3\ H_8\ O_3$	hemical not required.	CAS No.: 56-81-5	
	Pseudonym: TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS):	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 fulfille	Indice No.: MFCD: d.	n/a 00004722	

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. Remove contaminated clothing. Show product package, packing insert and this material safety data sheet to the doctor.

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 for min. 10 minutes with eye washing bottle, eye douche or running water (protect intact eye). Before (if possible) apply eye drops Proxymetacaine 0.5%, if the opening the eyelid convulsion is painful. Further treatment to be carried out by an eye specialist.

After INHALATION of vapours 4.1.3

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

4.1.4 After ORAL Intake

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

4.2 Most important symptoms and effects, both acute and delayed

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4.3 Indication of any immediate medical attention and special treatment needed

After EYE CONTACT rinse immediately with plenty of water for a long time. Eyelid convulsion measures. Name the corrosive chemical. Further treatment must to be carried out by an eye specialist. ---

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Do not breathe vapours. Wear eye protection, respectively face protection. 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. 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 Requirements for stock rooms and containers 7.2.1 Keep original product packages tightly closed during handling and storage. Use inbreakable container for transport of glass bottles. 7.3 Specific end use(s) Product for analytical use.

SECTION 8: Exposure controls/personal protection

8.1 **Control parameters**

1.5 mL B-Be	ads	
Chemical:	magnetic particles, suspended in water	CAS No.: -
100 mL CB		
Chemical:	guanidine hydrochloride	CAS No.: 50-01-1
DNEL:	[inh] 3.5 mg/m ³	
DNEL	= Derived No-Effect Level (for workers)	
PNEC(fresh w	ater) -	
PNEC	= Predicted No Effected Concentration	
NIOSH:	not listed	



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

ITW4 Time-weighted average to a reference peeded of Broues, [STEL] Short-term exposure limit related to a 15-minute period OSHA: incl [16] 500 mg/m² PNEC: incl [16] 500 mg/m² Bin ordering exposure factor: 2(0) pm / 500 mg/m² TRGS 900 (DE): 200 pm / 500 mg/m² TRGS 900 (DE): 200 pm / 500 mg/m² TRGS 900 (DE): 200 pm / 500 mg/m² TRGS 900 (DE): [16] mg/m² NIOSH: [TWA] 400 pm / 1280 mg/m² NIOSH: [TWA] 400 pm / 1280 mg/m² MICH Thereage table a steleneous period of Broues, [STEL] Short-term exposure limit related to a 15-minute period Short-Let Demical: CAS No: 151-21-3 NIOSH: mol listed CAS No: 151-21-3 NIOSH: mol listed CAS No: 50-01-1 DNE: mol listed CAS No: 50-01-1	Printing date:	12.05.2021	NucleoMag DNA Food (1x96) Date of issue: 20.04.2021		Page: 9
DNEL:				osure limit related to a 15-minute period	
PNEC ingen water): 140.9 mgL PMEC = Predicated to Effected Concentration TRGS 900 (DE): 200 ppm / 500 mg/m ² Short-term exposure factor: 2 (II), Y stor rescription (E): 200 ppm / 500 mg/m ² Stort-term exposure factor: 2 (II), Y stort rescription (E): (Accion Bb), UD) 22 mgL, B bood, U une, a no limitation, b end of exposition or shit NIOSH: [TWA] 100 ppm / 1225 mgL, B or Minimal Del Org/m ² NIOSH: [TWA] 400 ppm / 980 mg/m ² Chemical: <i>Triticn® X:114</i> CAS No: 9036-19-5 30 mL CE Chemical: <i>chast concentration</i> Chemical: <i>chast concentration</i> CAS No: 151-21-3 NIOSH: not listed CAS No: 50-01-1 DNEL: Difference period of 8 hours. [STEL] Short-term exposure limit related to a 15-minute period OSH: not listed CAS No: 60-00-4		DNEL:		CAS No.: 67-63-0	
Ever respirate/e Short-term exposure factor: 2 (III), Y skin resorptive (H), respiratory sensitizable (Sk), skin sensitizable (Sk), terratogenic (2) not securely excluded / (Y) certainly excluded SUVA(CH) MAK value: 200 ppm / 500 mg/m² TRCS 903 (DE): [Aceton B/b, U/D] 25 mg/L Biobod, U urice a no limitation, be end exposition or shift NIOSH STEL: NIOSH STEL: 500 ppm / 1200 mg/m² NIOSH TEL: 500 ppm / 1920 mg/m² Chemical: Triton® X-114 CAS No.: 9036-19-5 30 mL CE CAS No.: 151-21-3 Chemical: chemical:/mixture < 1%		PNEC(fresh water)	140.9 mg/L		
skin resignitue (H), respiratory isensitizable (Sb), isenstogenic (Z) not securely excluded / (Y) certainly excluded SUVA(CH) MAK Value: 200 ppm / 500 mg/m ² TRGS 903 (DE): [Aceton B/b, U/b) 25 mg/L B blood, U urine, a lo limitation, b end of exposition or shift NIOSH STEL: 500 ppm / 1250 mg/m ² TWN Three-weighted average to a televance period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period OSHA: [TWA] 400 ppm / 980 mg/m ³ Chemical: Tritor® X-114 CAS No.: 9036-19-5 30 mL CE Chemical: chemicals/mixture < 1% CAS No.: 151-21-3 NIOSH: [TWA] 400 ppm / 980 mg/m ³ OSHA: [TWA] Three-weighted average to a televance period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period OSHA: [TWA] 400 ppm / 980 mg/m ³ Chemical: chemicals/mixture < 1% CAS No.: 151-21-3 NIOSH: [TWA] 400 ppm / 980 mg/m ³ OSHA: [TWA] Time-weighted average to a televance period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period OSHA: not listed Chemical: guanidine hydrochloride CAS No.: 50-01-1 DNEL: [Im1] 3.5 mg/m ³ DEL = Derived No.: Effect Concentration NIOSH: [Im1] 3.5 mg/m ³ DEL = Derived No.: Effect Concentration NIOSH: not listed Chemical: ethylendinitrito tetraacetic period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period OSHA: not listed Chemical: guanidine hydrochloride Concentration NIOSH: [Im1] 3.5 mg/m ³ DEL = Derived No.: Effect Concentration NIOSH: [Im1] 5.5 mg/m ³ DEL = Derived No.: Effect Concentration NIOSH: [Im2] Time-weighted average to a televance period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period OSHA: not listed Chemical: ethylendinitrito tetraacetic period (EDTA) CAS No.: 60-00-4 DNEL: Derived No.: Effect Concentration NEL = Derived No.: Effect Concentration DEL = Derived No.: Effect Concentration Chemical: ethanol [Im1] 43 mg/kg; [Im1] 950 mg/m ³ DEL = Derived No.: Effect Concentration Chemical: ethanol [Im1] 5.0 mg/m ³ DEL = Derived No.: Effect Concentration Chemical: ethanol [Im1] 5.0			E/e respirable		
NIOSH STEL: 500 ppm / 1225 mg/m² [TWA] Time-weighted wereage to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period OSHA: [TWA] 400 ppm / 980 mg/m² Chemical: Triton® X-114 CAS No.: 9036-19-5 30 mL CE Chemical: chemicals/mixture < 1% CAS No.: - 100 mL CF Chemical: dodecy/ sulfate, sodium salt CAS No.: 151-21-3 NIOSH: CHEMICAL CAS No.: 151-21-3 NIOSH: no tilsted Chemical: dodecy/ sulfate, sodium salt (TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period OSHA: not listed Chemical: dodecy/ sulfate, sodium salt CAS No.: 50-01-1 DNEL: Derived No-Effect Level (for workers) PMECE = Producted No-Effect Level (for workers) PMECE = Producted No-Effect Concentration NIOSH: not listed Chemical: dual period concentration NIOSH: not listed Chemical: dual period concentration NIOSH: Not Effect Concentration NIOSH: 0.5 Define Level (for workers) PNEC(rest) water): 22 mg/L PMEC = Producted No-Effect Concentration PNECE = Derived No-Effect Level (for workers) PNEC(rest) water): 22 mg/L PMEC = Producted No-Effect Concentration PNECE = Pr		skin resorptive (H), respi SUVA(CH) MAK value:	ratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z 200 ppm / 500 mg/m³ [Aceton B/b, U/b] 25 mg/L		
Sun L CE CAS No.: - Chemical: chemicals/mixture < 1%		NIOSH STEL: [TWA] Time-weighted ave	500 ppm / 1225 mg/m ³ rage to a reference period of 8 hours, [STEL] Short-term exp	osure limit related to a 15-minute period	
Chemical: chemicals/mixture < 1%		Chemical: Triton® X-114	t.	CAS No.: 9036-19-5	
Chemical: dodecyl sulfate, sodium salt not listed TWA) Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period OSHA: not listed Chemical: chemicals/mixture < 2% CAS No.: - 100 mL CMW Chemical: guanidine hydrochloride Chemical: not listed DNEL = Derived No-Effect Level (tor workers) PNEC of Predicted No Effected Concentration NIOSH: not listed Chemical: ethylendinitrilo tetraacetic acid (EDTA) DNEL = Derived No-Effect Level (tor workers) PNEC of Predicted No Effected Concentration NIOSH: not listed Chemical: ethylendinitrilo tetraacetic acid (EDTA) DNEL = Derived No-Effect Level (tor workers) PNEC (treat water): 2.2 mg/L PNEC of Predicted No Effect Level (tor workers) PNEC (treat water): 0.96 mg/L PNEC (treat water): 0			tture < 1%	CAS No.: -	
TWA) Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period OSHA: not listed Chemical: chemicals/mixture < 2% CAS No.: - 100 mL CMW Chemical: guanidine hydrochloride CAS No.: 50-01-1 DNEL:		Chemical: dodecyl sulfat		CAS No.: 151-21-3	
100 mL CMW Chemical: guanidine hydrochloride CAS No.: 50-01-1 DNEL: [Inh] 3.5 mg/m³ DNEC (freeh water): - PNEC = Predicted No Effect Level (for workers) PNEC = The system of thisted [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period OSHA: not listed Chemical: ethylendinitrilo tetraacetic acid (EDTA) CAS No.: 60-00-4 DNEL: 1.5 mg/m³ DNEL = Derived No-Effect Level (for workers) PNEC = Predicted No Effect devel (for workers) DNEL = Derived No-Effect Level (for workers) PNEC = Predicted No Effect Level (for workers) CAS No.: 64-17-5 DNEL = Derived No-Effect Level (for workers) DNEL = Derived No-Effect Level (for workers) PNEC = Predicted No Effected Concentration CAS No.: 64-17-5 DNEL = Derived No-Effect Level (for workers) PNEC = Predicted No-Effect Level (for workers) PNEC = Predicted No-Effect Level (for workers) Ede respirable Short-term exposure factor: 9.00 mL/m³ / 380 mg/m³ DNEL = Derived No-Effect Level (for workers) Effected Concentration PNEC = Predicted No-Effect Level (for workers) Storespirable Short-		[TWA] Time-weighted ave	rage to a reference period of 8 hours, [STEL] Short-term exp	osure limit related to a 15-minute period	
Chemical: guanidine hydrochloride CAS No.: 50-01-1 DNEL: [inh] 3.5 mg/m³ DNEL = Derived No.Effect Level (for workers) PNEC(fresh water): - PNEC= Predicted No.Effect Level (for workers) NIOSH: not listed TWWA) Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period OSHA: not listed Chemical: ethylendinitrilo tetraacetic acid (EDTA) DNEL: 1.5 mg/m³ DNEL: 1.5 mg/m³ DNEL: 2.2 mg/L PNEC (fresh water): 2.2 mg/L PNEC = Predicted No Effect Level (for workers) PNEC (fresh water): 0.96 mg/L PNEC = Predicted No Effect Level (for workers)		Chemical: chemicals/mix	cture < 2%	CAS No.: -	
NIOSH: not listed [TVVA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period OSHA: not listed Chemical: ethylendinitrilo tetraacetic acid (EDTA) CAS No.: 60-00-4 DNEL: 1.5 mg/m³ DNEL = Derived No-Effect Level (for workers) PNEC (fresh water): 2.2 mg/L PNEC = Predicted No Effect Concentration CAS No.: 64-17-5 DNEL = Derived No-Effect Level (for workers) PNEC = Predicted No Effect Level (for workers) PNEC = Predicted No Effect Level (for workers) PNEC = fredicted No Effect Level (for workers) PNEL = Derived No-Effect Level (for workers) PNEL = Derived No-Effect Level (for workers) PNEL = Derived No-Effect Level (for workers) PNEC (fresh water) : 0.96 mg/L PNEC = Predicted No Effected Concentration TRGS 900 (DE): TRGS 900 (DE): 200 mL/m³ / 380 mg/m³ E/e respirable Short-term exposure factor: 4 (II), Y skin resoptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded SUVA(CH) MAK value: 500 ppm / 960 mg/m³ ITWA) Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period		Chemical: guanidine hyd	[inh] 3.5 mg/m³	CAS No.: 50-01-1	
OSHA: not listed Chemical: ethylendinitrilo tetraacetic acid (EDTA) CAS No.: 60-00-4 DNEL: 1.5 mg/m³ DNEL = Derived No-Effect Level (for workers) PNEC(tresh water): 2.2 mg/L PNEC = Predicted No Effect Level (concentration Chemical: ethanol DNEL = Derived No-Effect Level (for workers) PNEC (tresh water): 0.96 mg/L PNEC (tresh water): 0.96 mg/L PNEC = Predicted No Effect Level (for workers) PNEC (tresh water): 0.96 mg/L PNEC = Predicted No Effect Level (concentration TRGS 900 (DE): 200 mL/m³ / 380 mg/m³ E/e respirable Short-term exposure factor: 4 (II), Y skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded SUVA(CH) MAK value: 500 ppm / 960 mg/m³ NIOSH: [TWA] Tome-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period		NIOSH:	not listed	osure limit related to a 15-minute period	
DNEL: 1.5 mg/m ³ DNEL = Derived No-Effect Level (for workers) PNEC (fresh water) : 2.2 mg/L PNEC = Predicted No Effected Concentration Chemical: ethanol CAS No.: 64-17-5 DNEL: [derm] 343 mg/kg; [inh] 950 mg/m ³ DNEL = Derived No-Effect Level (for workers) PNEC (fresh water) : 0.96 mg/L PNEC = Predicted No Effected Concentration TRGS 900 (DE): 200 mL/m ³ / 380 mg/m ³ E/e respirable Short-term exposure factor: 4 (II), Y skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded SUVA(CH) MAK value: 500 ppm / 960 mg/m ³ [TWA] 1000 ppm / 1900 mg/m ³ [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period		OSHA:	not listed		
Chemical: ethanol CAS No.: 64-17-5 DNEL: [derm] 343 mg/kg; [inh] 950 mg/m³ DNEL = Derived No-Effect Level (for workers) PNEC = Derived No-Effect Level (for workers) PNEC = Predicted No Effected Concentration TRGS 900 (DE): 200 mL/m³ / 380 mg/m³ E/e respirable Short-term exposure factor: 4 (II), Y skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded SUVA(CH) MAK value: 500 ppm / 960 mg/m³ NIOSH: [TWA] 1000 ppm / 1900 mg/m³ [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period		DNEL: DNEL = Derived No-Effect	1.5 mg/m³ t Level (for workers)	CAS No.: 60-00-4	
DNEL: [derm] 343 mg/kg; [inh] 950 mg/m³ DNEL = Derived No-Effect Level (for workers) PNEC(fresh water): 0.96 mg/L PNEC = Predicted No Effected Concentration TRGS 900 (DE): 200 mL/m³ / 380 mg/m³ E/e respirable Short-term exposure factor: 4 (II), Y skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded SUVA(CH) MAK value: 500 ppm / 960 mg/m³ ITWA] 1000 ppm / 1900 mg/m³ [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period		PNEC(fresh water) : PNEC = Predicted No Effe	2.2 Ing/L ected Concentration		
TRGS 900 (DE): 200 mL/m³ / 380 mg/m³ E/e respirable Short-term exposure factor: 4 (II), Y skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded SUVA(CH) MAK value: 500 ppm / 960 mg/m³ S00 ppm / 960 mg/m³ ITWA] 1000 ppm / 1900 mg/m³ [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period		DNEL:		CAS No.: 64-17-5	
E/e respirable Short-term exposure factor: 4 (II), Y skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded SUVA(CH) MAK value: 500 ppm / 960 mg/m³ NIOSH: [TWA] 1000 ppm / 1900 mg/m³ [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period			0.96 mg/L ected Concentration 200 mL/m ³ / 380 mg/m ³		
SUVA(CH) MAK value: 500 ppm / 960 mg/m³ NIOSH: [TWA] 1000 ppm / 1900 mg/m³ [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period		Short-term exposure factor:	E/e respirable 4 (II), Y) not securely excluded / (Y) certainly excluded	
		SUVA(CH) MAK value: NIOSH:	500 ppm / 960 mg/m³ [TWA] 1000 ppm / 1900 mg/m³		
CAS No.: 77-86-1 DNEL: [derm] 166.7 mg/kg bw/day; [inh] 117.5 mg/m ³ DNEL = Derived No-Effect Level (for workers)		Chemical: <i>tris(hydroxym</i> DNEL:	ethyl)aminomethane [derm] 166.7 mg/kg bw/day; [inh] 117.5 mg/m³	CAS No.: 77-86-1	
PNEC _(fresh water) : no data mg/L					www.mn-r

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REF: 74494		NucleoMag DNA Food (1x96	6) Page: 10/18
Printing dai	te: 12.05.2021	Date of issue: 20.04.2021	
	PNEC = Predicte	d No Effected Concentration	
	NIOSH:	not listed	· · · · · · · · · · · · ·
	[TWA] Time-weigh OSHA:	hted average to a reference period of 8 hours, [STEL] Short-term not listed	exposure limit related to a 15-minute period
	Chemical: Triton®	9X-114	CAS No.: 9036-19-5
	125 mL CQW	e e cassa	040 No 50 04 4
	DNEL: DNEL = Derived N	line hydrochloride [inh] 3.5 mg/m³ No-Effect Level (for workers)	CAS No.: 50-01-1
	PNEC(fresh water) : PNEC = Predicted	d No Effected Concentration	
	NIOSH: [TWA] Time-weigh	not listed hted average to a reference period of 8 hours, [STEL] Short-term	exposure limit related to a 15-minute period
	OSHA:	not listed	
		[derm] 343 mg/kg; [inh] 950 mg/m³ No-Effect Level (for workers)	CAS No.: 64-17-5
		0.96 mg/L d No Effected Concentration	
	TRGS 900 (DE): Short-term exposure f	200 mL/m³ / 380 mg/m³ E/e respirable	
		H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogen	nic (Z) not securely excluded / (Y) certainly excluded
	NIOSH: [TWA] Time-weigh	[TWA] 1000 ppm / 1900 mg/m³ hted 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/m³	
	1.25 mL Liquid Prote Chemical: proteina SUVA(CH) MAK value	nase K, liquid (origin: tritirachium album)	CAS No.: 39450-01-61
	Chemical: glycero DNEL: DNEL = Derived N	D/e [inh] 56 mg/m³ No-Effect Level (for workers)	CAS No.: 56-81-5
	PNEC(fresh water):	0.885 mg/L d No Effected Concentration	
	TRGS 900 (DE):	200 E mg/m ³ E/e respirable	
	Short-term exposure f skin resorptive (H SUVA(CH) MAK value	H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogen	nic (Z) not securely excluded / (Y) certainly excluded
Ģ		action system in the room, floor resistant to chemical be maintained at the workplace.	ls with floor drainage and washing facilities. The highest
.2.1	Respiratory protecti No additional recomm		
3.2.2		g EN 374 (permeation time >30 min - level 2), consis rt times chemical resistant latex gloves with code EN	st of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansell N 374-3 level 1.
9.2.3	Eye protection Yes, safety glasses a	according EN 166 with integrated side shields or wra	p-around protection or face protection.
3.2.4	Skin protection Recommended to avo	oid contamination with these hazards.	
3.2.5	with the skin, eyes an		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.
			www.mn-n



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SEC	TION 9: Physical and ch	emical properties		
9.1	Information on basic phys	sical and chemical proper	ties	
	1.5 mL B-Beads Appearance: liquid	Colour: colourless	Odor: odorless	
	100 mL CB Appearance: liquid pH: Flash point: Specific gravity:	Colour: colourless 5,5 18 °C 0,9393 g/cm³	Odor: alcoholic	
	30 mL CE Appearance: liquid pH: Specific gravity:	Colour: colourless 8-9 1.0 g/cm³	Odor: odorless	
	100 mL CF Appearance: liquid pH: Specific gravity:	Colour: colourless 7.5-8.5 1.02 g/cm³	Odor: odorless	
	100 mL CMW Appearance: liquid pH: Flash point: Specific gravity:	Colour: colourless 7,8 32 °C 0,9820 g/cm³	Odor: alcoholic	
	125 mL CQW Appearance: liquid pH: Flash point: Specific gravity:	Colour: colourless 5-7 26 °C 1.0 g/cm³	Odor: alcoholic	
	1.25 mL Liquid Proteinase K Appearance: liquid pH: Specific gravity: Solubility in water:	Colour: colourless 7-8 1.1 g/cm ³ 0-100 %	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

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

Not necessary. ---

10.5 Incompatible materials Avoid contact with strong acids or alkalines.





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

	44945.1 g date: 12.05.2021	NucleoMag DNA Food Date of issue: 20.04.20		Page: 12/18
Printing	g date. 12.05.2021	Date of issue. 20.04.20	JZ I	
10.6	Hazardous decom			
	In the original package a period under recommen	Il parts/all reagents are safety and separated sto ded conditions.	ored. Decompositions are not observed du	ring the expiration
SECT	ION 11: Toxicolo	gical information		
1.1	Information on to	cicological effects is valid for pure substances. Quantitative data	on the toxicity of this product are not avai	lable
	1.5 mL B-Beads			
	Chemical: TSCA Inventory:	magnetic particles, suspended in water listed (CAS 1309-38-2)	CAS No.: -	
	100 mL CB			
	Chemical: TSCA Inventory: Australia NICNAS: Japan CSCL/PRTR Japan ISHL: South Korea TCCA Korea Exist.Chem.I LD50 _{orl rat} : LC50 _{ihl rat} : LD50 _{drm rbt} :	not listed Canada : not listed, Japan PDSCL: not listed not listed	CAS No.: 50-01-1 osition 65 List: not listed CEPA 1999: DSL yes	
	Chemical: TSCA Inventory: ACGIH: Exposure Routes: Target Organs: Symptoms: Australia NICNAS: Japan CSCL/PRTR Japan ISHL: South Korea TCCA Korea Exist.Chem.I LD50 _{orl rat} : LC_Low _{orl hmn} : LC50 _{ihl rat} : LD50 _{drm rbt} :	1230 ppm inhalation, ingestion, skin and/or eye o Eyes, skin, respiratory system irritation eyes, nose, throat; drowsines Canada PAC yes, Japan PDSCL: - listed ≥1,0%/≥0,1%, Article 57-2 (SDS	s, dizziness, headache; dry cracking skin; CEPA 1999: DSL yes	in animals: narcosis
	TRGS 905 (DE):	R _F C		
		<i>Triton® X-114</i> listed nventory: KE-33567 æ after oral intake, impairments of health when i	CAS No.: 9036-19-5 ngested in small quantities.	
	30 mL CE			
	Chemical: TSCA Inventory: Korea Exist.Chem.I	chemicals/mixture < 1% all listed, <1% nventory: listed	CAS No.: -	
	100 mL CF			
	Chemical: TSCA Inventory: Australia NICNAS: Japan CSCL/PRTR Japan ISHL: South Korea TCCA	not listed Canada : PRTR - Class I Designated Chemical not listed	CAS No.: 151-21-3 osition 65 List: not listed CEPA 1999: DSL yes Substance, Japan PDSCL: not listed	
				www.mn-net



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REF: 744945.1			NucleoMag DN	()	Page: 13/1
Printing date: 1	2.05.2021		Date of issue: 2	0.04.2021	
	LD50 _{drm rbt} :	10	g/kg		
			33		
	Chemical:	chemicals/	mixture < 2%	C	AS No.: -
	TSCA Inventory:		listed, <2%	0.	
	Korea Exist.Chem.In	ventory: list	ed		
	mL CMW				
	Chemical:		hydrochloride		AS No.: 50-01-1
	TSCA Inventory: Australia NICNAS:	list		a Proposition 65 List: not listed anada CEPA 1999: DSL yes	
	Japan CSCL/PRTR:		isted, Japan PDSCL: not list		
	Japan ISHL:		listed		
	South Korea TCCA:	not	listed		
	Korea Exist.Chem.In	ventory: KE	-18111		
	LD50 _{orl rat} :		5-907 mg/kg		
	LC50 _{ihl rat} :] 3181-7655 µg/m³		
	LD50 _{drm rbt} :		00 mg/kg	when indepted in small quantit	ion
	Acule Effects: Cause	e after oral ir	itake, impairments of nealth	when ingested in small quantit	les.
	Chemical:	ethylendini	trilo tetraacetic acid (EDTA)	C	AS No.: 60-00-4
	TSCA Inventory:	list			
	Japan CSCL/PRTR:		TR: ≥1,0% class I		
	Korea Exist.Chem.In	,			
	LD50 _{orl rat} :	200	00-4500 mg/kg		
	Chemical:	ethanol		C	AS No.: 64-17-5
	TSCA Inventory:	list	ed California	Proposition 65 List: not listed	
	ACGIH:		00 ppm		
	Exposure Routes:		alation, ingestion, skin and/c		
	Target Organs:			central nervous system, liver,	
	Symptoms: liver damage; anemia			ache, drowsiness, lassitude (v	veakness, exhaustion), narcosis; cough;
	Australia NICNAS:			anada CEPA 1999: DSL yes	
	Japan CSCL/PRTR:		isted, Japan PDSCL: not lis		
	Japan ISHL:		ed ≥0,1%/≥0,1%, Article 57-2		
	South Korea TCCA:	not	listed		
	Korea Exist.Chem.In				
	LD50 _{orl rat} :		00 mg/kg		
	LC_Low _{ihl gpg} :		9 g/m ³		
	LC_LOWorl hmn :		00 mg/kg] 39 g/m³		
	LC50 _{ihl mouse} : LC50 _{ihl rat} :	[41]	h] 20 g/m ³		
	LD50 _{drm rbt} :		000 mg/kg		
	LD50 _{oral mouse} :		50 mg/kg		
	TRGS 905 (DE):	K5	, M5, R _F C		
	Chemical:	tris(hvdrox	ymethyl)aminomethane	C	AS No.: 77-86-1
	TSCA Inventory:	list		Proposition 65 List: not listed	
	Australia NICNAS:			anada CEPA 1999: DSL yes	
	Japan CSCL/PRTR:		listed, Japan PDSCL: not lis	sted	
	Japan ISHL:		listed		
	South Korea TCCA: Korea Exist.Chem.In		listed		
	LD50 _{orl rat} :	,	-01403 00 mg/kg		
	- on lat .	500			
	Oh and a l	Triton	111	C	AS No : 0026 10 5
	Chemical:	Triton® X-	114		AS No.: 9036-19-5
	Chemical: TSCA Inventory:	list			AS NO.: 9030-19-5

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Irinting	14945.1	NucleoMag DNA Food (1x96)	Page: 14/
Innung	date: 12.05.2021	Date of issue: 20.04.2021	
	125 mL CQW		
		anidine hydrochloride	CAS No.: 50-01-1
	TSCA Inventory:	listed California Proposition 65 List	
	Australia NICNAS:	not listed Canada CEPA 1999:	DSL yes
	Japan CSCL/PRTR:	not listed, Japan PDSCL: not listed	
	Japan ISHL: South Korea TCCA:	not listed not listed	
	Korea Exist.Chem.Invent		
	LD50 _{orl rat} :	475-907 mg/kg	
	LC50 _{ihl rat} :	[4h] 3181-7655 µg/m³	
	LD50 _{drm rbt} :	2000 mg/kg	
	Acute Effects: Cause afte	er oral intake, impairments of health when ingested in sr	nall quantities.
	Chemical: eth	anol	CAS No.: 64-17-5
	TSCA Inventory:	listed California Proposition 65 List	t: not listed
	ACGIH:	1000 ppm	
	Exposure Routes:	inhalation, ingestion, skin and/or eye contact	
	Target Organs:	Eyes, skin, respiratory system, central nervous sys	
	Symptoms: liver damage; anemia; re	irritation eyes, skin, nose; headache, drowsiness, la productive, teratogenic	assitude (weakness, exhaustion), harcosis; cougi
	Australia NICNAS:	not listed Canada CEPA 1999:	DSI ves
	Japan CSCL/PRTR:	not listed, Japan PDSCL: not listed	
	Japan ISHL:	listed ≥0,1%/≥0,1%, Article 57-2 (SDS required)	
	South Korea TCCA:	not listed	
	Korea Exist.Chem.Invent		
	LD50 _{orl rat} :	6200 mg/kg	
	LC_Low _{ihl gpg} : LC_Low _{orl hmn} :	21.9 g/m³ 1400 mg/kg	
	LC50 _{ihl mouse} :	[4h] 39 g/m ³	
	LC50 _{ihl rat} :	[10h] 20 g/m ³	
	LD50 _{drm rbt} :	20 000 mg/kg	
	LD50oral mouse :	3450 mg/kg	
	TRGS 905 (DE):	K5, M5, R _F C	
	1.25 mL Liquid Proteir	iase K	
	Chemical: pro	teinase K, liquid (origin: tritirachium album)	CAS No.: 39450-01-6I
	TSCA Inventory:	listed (CAS 102925-54-2)	
	Japan CSCL/PRTR:	not listed	
	Ianan ISHI -	not listed	
	Japan ISHL:		
	Korea Exist.Chem.Invent	ory: not listed	
	Korea Exist.Chem.Invent		CAS No - 56-81-5
	Korea Exist.Chem.Invent	cerole	CAS No.: 56-81-5
	Korea Exist.Chem.Invent		CAS No.: 56-81-5
	Korea Exist Chem Invent Chemical: gly TSCA Inventory:	cerole listed (1,2,3-Propanetriol) inhalation, skin and/or eye contact Eyes, skin, respiratory system, kidneys	
	Korea Exist Chem Invent Chemical: gly TSCA Inventory: Exposure Routes: Target Organs: Symptoms:	cerole listed (1,2,3-Propanetriol) inhalation, skin and/or eye contact Eyes, skin, respiratory system, kidneys irritation eyes, skin, respiratory system; headache,	
	Korea Exist Chem Invent Chemical: gly TSCA Inventory: Exposure Routes: Target Organs: Symptoms: Japan CSCL/PRTR:	cerole listed (1,2,3-Propanetriol) inhalation, skin and/or eye contact Eyes, skin, respiratory system, kidneys irritation eyes, skin, respiratory system; headache, not listed, Japan PDSCL: not listed	
	Korea Exist.Chem.Invent Chemical: gly TSCA Inventory: Exposure Routes: Target Organs: Symptoms: Japan CSCL/PRTR: Japan ISHL:	cerole listed (1,2,3-Propanetriol) inhalation, skin and/or eye contact Eyes, skin, respiratory system, kidneys irritation eyes, skin, respiratory system; headache, not listed, Japan PDSCL: not listed not listed	
	Korea Exist.Chem.Invent Chemical: gly TSCA Inventory: Exposure Routes: Target Organs: Symptoms: Japan CSCL/PRTR: Japan ISHL: Korea Exist.Chem.Invent	cerole listed (1,2,3-Propanetriol) inhalation, skin and/or eye contact Eyes, skin, respiratory system, kidneys irritation eyes, skin, respiratory system; headache, not listed, Japan PDSCL: not listed not listed ory: KE-29297	
	Korea Exist.Chem.Invent Chemical: gly TSCA Inventory: Exposure Routes: Target Organs: Symptoms: Japan CSCL/PRTR: Japan ISHL: Korea Exist.Chem.Invent LD50 _{orl rat} :	cerole listed (1,2,3-Propanetriol) inhalation, skin and/or eye contact Eyes, skin, respiratory system, kidneys irritation eyes, skin, respiratory system; headache, not listed, Japan PDSCL: not listed not listed ory: KE-29297 12.6 g/kg	
	Korea Exist.Chem.Invent Chemical: gly TSCA Inventory: Exposure Routes: Target Organs: Symptoms: Japan CSCL/PRTR: Japan ISHL: Korea Exist.Chem.Invent LD50 _{orl rat} : LD50 _{drm rbt} :	cerole listed (1,2,3-Propanetriol) inhalation, skin and/or eye contact Eyes, skin, respiratory system, kidneys irritation eyes, skin, respiratory system; headache, not listed, Japan PDSCL: not listed not listed ory: KE-29297 12.6 g/kg >18.7 g/kg	
	Korea Exist.Chem.Invent Chemical: gly TSCA Inventory: Exposure Routes: Target Organs: Symptoms: Japan CSCL/PRTR: Japan ISHL: Korea Exist.Chem.Invent LD50 _{orl rat} :	cerole listed (1,2,3-Propanetriol) inhalation, skin and/or eye contact Eyes, skin, respiratory system, kidneys irritation eyes, skin, respiratory system; headache, not listed, Japan PDSCL: not listed not listed ory: KE-29297 12.6 g/kg	
ECT	Korea Exist.Chem.Invent Chemical: gly TSCA Inventory: Exposure Routes: Target Organs: Symptoms: Japan CSCL/PRTR: Japan ISHL: Korea Exist.Chem.Invent LD50 _{orl rat} : LD50 _{drm rbt} :	cerole listed (1,2,3-Propanetriol) inhalation, skin and/or eye contact Eyes, skin, respiratory system, kidneys irritation eyes, skin, respiratory system; headache, not listed, Japan PDSCL: not listed not listed ory: KE-29297 12.6 g/kg >18.7 g/kg R _F C	
	Korea Exist.Chem.Invent Chemical: gly TSCA Inventory: Exposure Routes: Target Organs: Symptoms: Japan CSCL/PRTR: Japan ISHL: Korea Exist.Chem.Invent LD50 _{orl rat} : LD50 _{drm rbt} : TRGS 905 (DE):	cerole listed (1,2,3-Propanetriol) inhalation, skin and/or eye contact Eyes, skin, respiratory system, kidneys irritation eyes, skin, respiratory system; headache, not listed, Japan PDSCL: not listed not listed ory: KE-29297 12.6 g/kg >18.7 g/kg R _F C	
5 ECT 2.1	Korea Exist Chem Invent Chemical: gly TSCA Inventory: Exposure Routes: Target Organs: Symptoms: Japan CSCL/PRTR: Japan ISHL: Korea Exist Chem Invent LD50 _{orl rat} : LD50 _{drm rbt} : TRGS 905 (DE):	cerole listed (1,2,3-Propanetriol) inhalation, skin and/or eye contact Eyes, skin, respiratory system, kidneys irritation eyes, skin, respiratory system; headache, not listed, Japan PDSCL: not listed not listed ory: KE-29297 12.6 g/kg >18.7 g/kg R _F C Information	
	Korea Exist.Chem.Invent Chemical: gly TSCA Inventory: Exposure Routes: Target Organs: Symptoms: Japan CSCL/PRTR: Japan ISHL: Korea Exist.Chem.Invent LD50 _{orl rat} : LD50 _{drm rbt} : TRGS 905 (DE): TRGS 905 (DE):	cerole listed (1,2,3-Propanetriol) inhalation, skin and/or eye contact Eyes, skin, respiratory system, kidneys irritation eyes, skin, respiratory system; headache, not listed, Japan PDSCL: not listed not listed ory: KE-29297 12.6 g/kg >18.7 g/kg R _F C Information	
	Korea Exist.Chem.Invent Chemical: gly TSCA Inventory: Exposure Routes: Target Organs: Symptoms: Japan CSCL/PRTR: Japan ISHL: Korea Exist.Chem.Invent LD50 _{orl rat} : LD50 _{drm rbt} : TRGS 905 (DE): ION 12: Ecological i Toxicity Following information is val	cerole listed (1,2,3-Propanetriol) inhalation, skin and/or eye contact Eyes, skin, respiratory system, kidneys irritation eyes, skin, respiratory system; headache, not listed, Japan PDSCL: not listed not listed ory: KE-29297 12.6 g/kg >18.7 g/kg R _F C Information Hid for pure substances. magnetic particles, suspended in water	

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REF: 744945.1 Printing date: 12.05.202	1	NucleoMag DNA Food (1x96) Date of issue: 20.04.2021		Page: 15/1
	mical: guanidine hydr C(fresh water) : C = Predicted No Effected Concentration		CAS No.: 50-01-1	
LC5 LC5 EC5 EC1 Wat	Oleuciscus idus/96h : Ofish/96h : Odaphnia/48h : Opseudomonas putita/16h : er hazard class (DE): age class (VCI):	1759 mg/L [4d] 690-1850; [48h] 1758-2420 mg/L 70.2 mg/L [72h] 11.8-33.5 mg/L 1 WGK No.: 0788 12		
	mical: 2-propanol C(fresh water) : C = Predicted No Effected Concentration	140.9 mg/L	CAS No.: 67-63-0	
LC5 EC5 IC5(EC1 Wat Disp	Ofish/96h : Odaphnia/48h : Oscenedesmus quadricauda/72h : Opseudomonas putita/16h : er hazard class (DE): version coefficient(octanol-water) : age class (VCI):	1400 mg/L 13.3 g/L >1000 mg/L EC5: 1050 mg/L 1 WGK No.: 0135 0.05 3		
Toxi Env Wat		effects. Avoid contact of substance/mixture to enviro labelled with H and P phrases until 125 mL (EU 1272 1 12-13		
30 mL C	E			
Wat	mical: chemicals/mix er hazard class (DE): age class (VCI):	ture < 1% 1 12-13	CAS No.: -	
100 mL	CF			
LC5 LC5 Wat Disp	mical: dodecyl sulfate Odaphnia magna/48h : Ofish/96h : er hazard class (DE): ersion coefficient _(octanol-water) : age class (VCI):	6.3 mg/L 1.31-22.5 mg/L 2	CAS No.: 151-21-3	
Wat	mical: chemicals/mix er hazard class (DE): age class (VCI):	ture < 2% 1 12-13	CAS No.: -	
	CMW mical: guanidine hydr C(fresh water) : C = Predicted No Effected Concentration		CAS No.: 50-01-1	
LC5 EC5 EC1 Wat	Oleuciscus idus/96h : Ofish/96h : Odaphnia/48h : Opseudomonas putita/16h : er hazard class (DE): age class (VCI):	1759 mg/L [4d] 690-1850; [48h] 1758-2420 mg/L 70.2 mg/L [72h] 11.8-33.5 mg/L 1 WGK No.: 0788 12		
	mical: <i>ethylendinitrilo</i> C(fresh water) : C = Predicted No Effected Concentration	tetraacetic acid (EDTA) 2.2 mg/L	CAS No.: 60-00-4	
LC5 LC5 EC5 EC1 Wat	Odaphnia magna/48h: Ofish/96h: Odaphnia/48h: Opseudomonas putita/16h: er hazard class (DE):	[48h] 140 mg/L [4d] 41-1592 mg/L [24h] 480-790 mg/L [72h] 2.77-1000 mg/L 2		
Disp	ersion coefficient _(octanol-water) : age class (VCI):	-5.01-0.13 12-13		



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REF: 744945.1 Printing date: 12.05.20	021	NucleoMag DNA Food (1x96) Date of issue: 20.04.2021	Page: 16/1
Ch	emical: ethanol	0.00 mm/	CAS No.: 64-17-5
PN PNI	IEC(fresh water) : EC = Predicted No Effected Concentration	0.96 mg/L	
LC	50 _{daphnia} magna/48h	>100 mg/L	
	50pimephales promelas/96h	13400 - 15100 mg/L	
	50leuciscus idus/96h 50fish/96h	[48h] 8140 mg/L 13 g/L	
EC	50daphnia/48h :	9.3-14.2 g/L	
	50scenedesmus quadricauda/72h 210pseudomonas putita/16h	[7d] 5000 mg/L [EC5] 6500 mg/L	
Wa	ater hazard class (DE):	1 WGK No.: 0096	
Dis Sto	spersion coefficient _(octanol-water) : orage class (VCI):	-0.31 3	
		thyl)aminomethane	CAS No.: 77-86-1
PNI	IEC _(fresh water) EC = Predicted No Effected Concentration	no data mg/L	
LC	50 _{fish/96h} :	LD0 (4d): 1-10 g/L	
	50pseudokirchneriella subcapitata/72h : 210pseudomonas putita/16h :	397; _{48h} : 473 mg/L 1 _{3h} g/L	
Wa	ater hazard class (DE):	2	
Dis Sto	spersion coefficient _(octanol-water) : prage class (VCI):	-1.56 12-13	
	emical: Triton® X-114		CAS No.: 9036-19-5
		ng effects. Avoid contact of substance/mixture to en labelled with P phrases until 125 mL (EU 1272/2008	
Wa	ater hazard class (DE):	1	/ (intext = 1.0.2).
Sto	orage class (VCI):	12-13	
125 mL	CQW emical: guanidine hydi	rachlaride	CAS No.: 50-01-1
	IEC(fresh water) : EC = Predicted No Effected Concentration		
LC LC	50leuciscus idus/96h : 50fish/96h :	1759 mg/L [4d] 690-1850; [48h] 1758-2420 mg/L	
EC	50 _{daphnia/48h} :	70.2 mg/L	
	10pseudomonas putita/16h ater hazard class (DE):	[72h] 11.8-33.5 mg/L 1 WGK No.: 0788	
	brage class (VCI):	12	
	emical: <i>ethanol</i>	0.96 mg/L	CAS No.: 64-17-5
PNI	IEC _(fresh water) : EC = Predicted No Effected Concentration		
	50daphnia magna/48h	>100 mg/L 13400 - 15100 mg/L	
	50pimephales promelas/96h 50leuciscus idus/96h	[48h] 8140 mg/L	
LC	50 _{fish/96h} :	13 g/L	
	50 _{daphnia/48h} : 50 _{scenedesmus quadricauda/72h :}	9.3-14.2 g/L [7d] 5000 mg/L	
EC	10pseudomonas putita/16h	[EC5] 6500 mg/L	
Wa	ater hazard class (DE):	1 WGK No.: 0096	
	spersion coefficient _(octanol-water) : prage class (VCI):	-0.31 3	
	L Liquid Proteinase K	in id / sizin filling af in a filmer i	040 No - 20/50 04 01
	emical: proteinase K, I ater hazard class (DE):	iquid (origin: tritirachium album) 1	CAS No.: 39450-01-6l
	prage class (VCI):	13	
	emical: <i>glycerole</i> IEC _{(fresh water}):	0.885 mg/L	CAS No.: 56-81-5
	IEC _(fresh water) : EC = Predicted No Effected Concentration		
	50fish/96h: 250 _{daphnia/48h} :	>5000 _{24h} mg/L >10 _{24h} g/L	
IC	50scenedesmus quadricauda/72h	IC5 _{7d} >10 g/L	
EC	10 _{pseudomonas putita/16h} ater hazard class (DE):	EC5: >10 g/L 0	
Dis	spersion coefficient _(octanol-water) :	-1.76	
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Storage class (VCI):

- 12.2 Persistence and degradability not necessary 12.3 **Bioaccumulative potential**
- not necessary
- 12.4 Mobility in soil not necessary
- 12.5 Results of PBT and vPvB assessment no data available
- 12.6 Other adverse effects

no additional data available

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods

Normally it is possible to empty small amounts (diluted!) into drains. Empty containers of corrosive reagents prior to disposal, rinse with water.

SECTION 14: Transport information

14.1 UN number: 14.3 Class: Road transport		4.2 UN proper shipping name: 4.4 Packing group: II	Flammable liquid, n.o.s. (ethanol, 2-propanol mixture)
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:	364	max. weight CAO: 60 L	
Maritime transport		-	
EmS:	F-E, S-I	E Storage category: B	

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 ---

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SECTION 16: Other information

List of H and P phrases 16.1

16.1.1	List of relevant H phrases	
	H226	Flammable liquid and vapour.
	H302	Harmful if swallowed.
	H315	Causes skin irritation.
	H318	Causes serious eve damage.
	H319	Causes serious eve irritation.
	H336	May cause drowsiness or dizziness.
	H411	Toxic to aquatic life with long lasting effects.
	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.
	P260D	Do not breathe vapours.
	P264W	Wash with water thoroughly after handling.
	P273	Avoid release to the environment.
	P280sh	Wear protective gloves/eye protection.
	P301+312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
	P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P310	Immediately call a POISON CENTER/doctor.
	P330	Rinse mouth.

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

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16.5 Sources of key data

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

Revisions/Updates

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

2017-11 Adaption of ECHA Registration dossier



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