

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 744945.1
 Product name 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
 Valenciener Str. 11, 52355 Düren, GERMANY
 Tel.: +49 2421 969 0
 E-mail: sds@mn-net.com (msds@mn-net.com)

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

SECTION 2: Hazard identification

2.0 Classification of the complete product



Signal word	DANGER
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

Safety Data Sheet

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

REF: 744945.1

NucleoMag DNA Food (1x96)

Page: 2/18

Printing date: 12.05.2021

Date of issue: 20.04.2021

2.1 Classification of the substance or mixture

1.5 mL B-Beads

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

100 mL CB



GHS02 GHS05 GHS07 GHS09

Signal word DANGER

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

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



GHS02 GHS07

Signal word WARNING

Hazard identification	Hazard classes/categories
H226	Flam. Liq. 3
H302	Acute Tox. 4 oral
H412	Aquatic Chronic 3

125 mL CQW



GHS02 GHS07

Safety Data Sheet

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

REF: 744945.1	NucleoMag DNA Food (1x96)	Page: 3/18
Printing date: 12.05.2021	Date of issue: 20.04.2021	

Signal word	WARNING
Hazard identification	Hazard classes/categories
H226	Flam. Liq. 3
H302	Acute Tox. 4 oral

1.25 mL Liquid Proteinase K

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 identifier(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.

Safety Data Sheet

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

REF: 744945.1

NucleoMag DNA Food (1x96)

Page: 4/18

Printing date: 12.05.2021

Date of issue: 20.04.2021

125 mL CQW



GHS02



GHS07

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: *magnetic 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

Chemical: *guanidine hydrochloride*

CAS No.: 50-01-1

Classification: H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2

Formula: CH_6ClN_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.

Safety Data Sheet

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

REF: 744945.1 NucleoMag DNA Food (1x96) Page: 5/18
 Printing date: 12.05.2021 Date of issue: 20.04.2021

Chemical: *2-propanol* CAS No.: 67-63-0
 Classification: H225, Flam. Liq. 2, H319, Eye Irrit. 2, H336, STOT SE 3
 Formula: C₃H₈O
 Pseudonym: isopropanol, IPA, propan-2-ol
 TSCA Inventory: listed
 REACH Reg. No.: 01-2119457558-25-XXXX
 EC No.: 200-661-7
 RTECS: NT8050000
 KE No.: KE-29363
 Concentration: 35 - <50 %
 acc. CLP (GHS): H226, Flam. Liq. 3, H319, Eye Irrit. 2, H336, STOT SE 3

Indice No.: 603-117-00-0
 MFCD: 00011674

Chemical: *Triton® X-114* CAS No.: 9036-19-5
 Classification: H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H318, Eye Dam. 1, H410, Aquatic Chronic 1
 Formula: C₃₀H₅₄O₉
 Pseudonym: Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-
 TSCA Inventory: listed
SVHC listed: listed
 EC No.: 232-658-1
 RTECS: R10720000
 KE No.: KE-33567
 Concentration: 15 - <25 %
 acc. CLP (GHS): H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H318, Eye Dam. 1, H411, Aquatic Chronic 2

30 mL CE

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

100 mL CF

Chemical: *dodecyl sulfate, sodium salt* CAS No.: 151-21-3
 Classification: H228, Flam. Sol. 1, H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H318, Eye Dam. 1, H332, Acute
 Tox. 4 inh., H335, STOT SE 3, H412, Aquatic Chronic 3
 Formula: C₁₂H₂₅NaO₄S
 Pseudonym: sodium lauryl sulfate, sulfuric acid monododecyl ester sodium salt
 TSCA Inventory: listed
 REACH Reg. No.: 01-2119489461-32-xxxx
 EC No.: 205-788-1
 RTECS: WT1050000
 KE No.: KE-21884
 Concentration: 1 - <2.5 %
 acc. CLP (GHS): The criteria for classification are not fulfilled.

MFCD: 00036175

Chemical: *chemicals/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.

100 mL CMW

Chemical: *guanidine hydrochloride* CAS No.: 50-01-1
 Classification: H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2
 Formula: CH₆ClN₃
 Pseudonym: guanidinium chloride
 TSCA Inventory: listed
 REACH Reg. No.: 01-2119977063-35-0005
 EC No.: 200-002-3
 RTECS: MF4300000
 KE No.: KE-18111
 Concentration: 24 - <36 %
 acc. CLP (GHS): H302, Acute Tox. 4 oral

Indice No.: 607-148-00-0
 MFCD: 00013026

Safety Data Sheet

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

REF: 744945.1 NucleoMag DNA Food (1x96) Page: 6/18
 Printing date: 12.05.2021 Date of issue: 20.04.2021

Chemical: *ethylendinitrilo tetraacetic acid (EDTA)* CAS No.: 60-00-4
 Classification: H319, Eye Irrit. 2, H412, Aquatic Chronic 3
 Formula: C₁₀ H₁₆ N₂ O₈
 Pseudonym: Edetic acid, Glycine, N,N'-1,2-ethanediybis[N-(carboxymethyl)-
 TSCA Inventory: listed
 REACH Reg. No.: 01-2119486399-18-xxxx
 RTECS: AH4025000 MFCD: 0003541
 KE No.: KE-13648
 Concentration: 0.1 - <1 %
 acc. CLP (GHS): The criteria for classification are not fulfilled.

Chemical: *ethanol* CAS No.: 64-17-5
 (denatured with 1%IPA/1%MEK, acc.2016/1867/EU)
 Classification: H225, Flam. Liq. 2
 Formula: C₂ H₆ O; C₂ H₅ OH
 Pseudonym: ethyl alcohol, methylated spirit
 TSCA Inventory: listed
 REACH Reg. No.: 01-2119457610-43-xxxx
 EC No.: 200-578-6 Indice No.: 603-002-00-5
 RTECS: KQ6300000 MFCD: 00003568
 KE No.: KE-13217
 Concentration: 35 - <55 %
 acc. CLP (GHS): H226, Flam. Liq. 3

Chemical: *tris(hydroxymethyl)aminomethane* CAS No.: 77-86-1
 Classification: No criteria for classification or naming of chemical not required.
 Formula: C₄ H₁₁ NO₃
 Pseudonym: Trometamol, 2-amino-2-(hydroxymethyl)-1,3-propanediol
 TSCA Inventory: listed
 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 fulfilled.

Chemical: *Triton® X-114* CAS No.: 9036-19-5
 Classification: H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H318, Eye Dam. 1, H410, Aquatic Chronic 1
 Formula: C₃₀ H₅₄ O₉
 Pseudonym: Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-
 TSCA Inventory: listed
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 CQW

Chemical: *guanidine hydrochloride* CAS No.: 50-01-1
 Classification: H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2
 Formula: CH₆ ClN₃
 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 %
 acc. CLP (GHS): H302, Acute Tox. 4 oral



Safety Data Sheet

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

REF: 744945.1

NucleoMag DNA Food (1x96)

Page: 7/18

Printing date: 12.05.2021

Date of issue: 20.04.2021

Chemical:	<i>ethanol</i> (denatured with 1%IPA/1%MEK, acc.2016/1867/EU)	CAS No.:	64-17-5
Classification:	H225, Flam. Liq. 2		
Formula:	C ₂ H ₆ O; C ₂ H ₅ OH		
Pseudonym:	ethyl alcohol, methylated spirit		
TSCA Inventory:	listed		
REACH Reg. No.:	01-2119457610-43-xxxx		
EC No.:	200-578-6	Indice No.:	603-002-00-5
RTECS:	KQ6300000	MFCD:	00003568
KE No.:	KE-13217		
Concentration:	35 - <55 %		
acc. CLP (GHS):	H226, Flam. Liq. 3		

1.25 mL Liquid Proteinase K

Chemical:	<i>proteinase K, liquid (origin: tritirachium album)</i>	CAS No.:	39450-01-6I
Classification:	H315, Skin Irrit. 2, H319, Eye Irrit. 2, H334, Resp. Sens. 1		
Formula:	Enzyme Comm. No. 3.4.21.64, origin: tritirachium album		
TSCA Inventory:	listed (CAS 102925-54-2)		
EC No.:	254-457-8	Indice No.:	647-014-00-9
RTECS:	-	MFCD:	00132129
KE No.:	not listed		
Concentration:	1 - <3 %		
acc. CLP (GHS):	The criteria for classification are not fulfilled.		

Chemical:	<i>glycerole</i>	CAS No.:	56-81-5
Classification:	No criteria for classification or naming of chemical not required.		
Formula:	C ₃ H ₈ O ₃		
Pseudonym:	glycerin, 1,2,3-propanetriol		
TSCA Inventory:	listed (1,2,3-Propanetriol)		
REACH Reg. No.:	01-2119471987-18-xxxx		
EC No.:	200-289-5	Indice No.:	n/a
RTECS:	MA8050000	MFCD:	00004722
KE No.:	KE-29297		
Concentration:	50 - <80 %		
acc. CLP (GHS):	The criteria for classification are not fulfilled.		

3.3 Remarks

When not listed, mixtures are added with water [CAS No. 7732-18-5] to 100%.

List of H and P phrases: see section 16.1

SECTION 4: First aid measures

4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitation if necessary. If necessary contact medical advice. 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.

4.1.3 After INHALATION of vapours

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

4.1.4 After ORAL Intake

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

4.2 Most important symptoms and effects, both acute and delayed

Safety Data Sheet

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

REF: 744945.1

NucleoMag DNA Food (1x96)

Page: 8/18

Printing date: 12.05.2021

Date of issue: 20.04.2021

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

7.2.1 Requirements for stock rooms and containers

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-Beads

Chemical: *magnetic particles, suspended in water*

CAS No.: -

100 mL CB

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 Concentration

NIOSH: not listed

Safety Data Sheet

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

REF: 744945.1

NucleoMag DNA Food (1x96)

Page: 9/18

Printing date: 12.05.2021

Date of issue: 20.04.2021

[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: *2-propanol* CAS No.: 67-63-0

DNEL: [inh] 500 mg/m³
DNEL = Derived No-Effect Level (for workers)

PNEC_(fresh water): 140.9 mg/L
PNEC = Predicted No Effect Concentration

TRGS 900 (DE): 200 ppm / 500 mg/m³
E/e respirable

Short-term exposure factor: 2 (II), Y
skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 200 ppm / 500 mg/m³

TRGS 903 (DE): [Aceton B/b, U/b] 25 mg/L
B blood, U urine, a no limitation, b end of exposition or shift

NIOSH: [TWA] 400 ppm / 980 mg/m³
NIOSH STEL: 500 ppm / 1225 mg/m³
[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: [TWA] 400 ppm / 980 mg/m³

Chemical: *Triton® X-114* CAS No.: 9036-19-5

30 mL CE

Chemical: *chemicals/mixture < 1%* CAS No.: -

100 mL CF

Chemical: *dodecyl sulfate, sodium salt* CAS No.: 151-21-3

NIOSH: 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* 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 Concentration

NIOSH: 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: *ethyldinitrilo 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

Chemical: *ethanol* CAS No.: 64-17-5

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 Effect 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

OSHA: [TWA] 1000 ppm / 1900 mg/m³

Chemical: *tris(hydroxymethyl)aminomethane* CAS No.: 77-86-1

DNEL: [derm] 166.7 mg/kg bw/day; [inh] 117.5 mg/m³
DNEL = Derived No-Effect Level (for workers)

PNEC_(fresh water): no data mg/L

Safety Data Sheet

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

REF: 744945.1

NucleoMag DNA Food (1x96)

Page: 10/18

Printing date: 12.05.2021

Date of issue: 20.04.2021

PNEC = Predicted No Effect Concentration

NIOSH: 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: *Triton® X-114* CAS No.: 9036-19-5

125 mL CQW

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 Concentration

NIOSH: 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: *ethanol* CAS No.: 64-17-5

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 Effect 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

OSHA: [TWA] 1000 ppm / 1900 mg/m³

1.25 mL Liquid Proteinase K

Chemical: *proteinase K, liquid (origin: tritirachium album)* CAS No.: 39450-01-6l

SUVA(CH) MAK value: 0,00006_{15min} mg/m³

Chemical: *glycerole* CAS No.: 56-81-5

DNEL: [inh] 56 mg/m³
 DNEL = Derived No-Effect Level (for workers)

PNEC_(fresh water): 0.885 mg/L
 PNEC = Predicted No Effect Concentration

TRGS 900 (DE): 200 E mg/m³
 E/e respirable

Short-term exposure factor: 2 (I), Y
 skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 50 e* mg/m³

8.2 Exposure controls

Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities. The highest level of cleanliness must be maintained at the workplace.

8.2.1 Respiratory protection

No additional recommendations.

8.2.2 Hand protection

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

8.2.3 Eye protection

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

8.2.4 Skin protection

Recommended to avoid contamination with these hazards.

8.2.5 Personal hygiene

Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.

Safety Data Sheet

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

REF: 744945.1

NucleoMag DNA Food (1x96)

Page: 11/18

Printing date: 12.05.2021

Date of issue: 20.04.2021

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

1.5 mL B-Beads

Appearance: liquid Colour: colourless Odor: odorless

100 mL CB

Appearance: liquid Colour: colourless Odor: alcoholic
pH: 5,5
Flash point: 18 °C
Specific gravity: 0,9393 g/cm³

30 mL CE

Appearance: liquid Colour: colourless Odor: odorless
pH: 8-9
Specific gravity: 1.0 g/cm³

100 mL CF

Appearance: liquid Colour: colourless Odor: odorless
pH: 7.5-8.5
Specific gravity: 1.02 g/cm³

100 mL CMW

Appearance: liquid Colour: colourless Odor: alcoholic
pH: 7,8
Flash point: 32 °C
Specific gravity: 0,9820 g/cm³

125 mL CQW

Appearance: liquid Colour: colourless Odor: alcoholic
pH: 5-7
Flash point: 26 °C
Specific gravity: 1.0 g/cm³

1.25 mL Liquid Proteinase K

Appearance: liquid Colour: colourless Odor: odorless
pH: 7-8
Specific gravity: 1.1 g/cm³
Solubility in water: 0-100 %

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.

Safety Data Sheet

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

REF: 744945.1

NucleoMag DNA Food (1x96)

Page: 12/18

Printing date: 12.05.2021

Date of issue: 20.04.2021

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.

1.5 mL B-Beads

Chemical: *magnetic particles, suspended in water* CAS No.: -
TSCA Inventory: listed (CAS 1309-38-2)

100 mL CB

Chemical: *guanidine hydrochloride* CAS No.: 50-01-1
TSCA Inventory: listed California Proposition 65 List: not listed
Australia NICNAS: not listed Canada CEPA 1999: DSL yes
Japan CSCL/PRTR: not listed, Japan PDSCL: not listed
Japan ISHL: not listed
South Korea TCCA: not listed
Korea Exist.Chem.Inventory: KE-18111
LD50_{orl rat}: 475-907 mg/kg
LC50_{ihl rat}: [4h] 3181-7655 µg/m³
LD50_{drm rbt}: 2000 mg/kg

Chemical: *2-propanol* CAS No.: 67-63-0
TSCA Inventory: listed California Proposition 65 List: not listed
ACGIH: 1230 ppm
Exposure Routes: inhalation, ingestion, skin and/or eye contact
Target Organs: Eyes, skin, respiratory system
Symptoms: irritation eyes, nose, throat; drowsiness, dizziness, headache; dry cracking skin; in animals: narcosis
Australia NICNAS: Canada CEPA 1999: DSL yes
Japan CSCL/PRTR: PAC yes, Japan PDSCL: -
Japan ISHL: listed ≥1,0%/≥0,1%, Article 57-2 (SDS required)
South Korea TCCA:
Korea Exist.Chem.Inventory: KE-29363
LD50_{orl rat}: 5045 mg/kg
LC_{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

Chemical: *Triton® X-114* CAS No.: 9036-19-5
TSCA Inventory: listed
Korea Exist.Chem.Inventory: KE-33567
Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.

30 mL CE

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

100 mL CF

Chemical: *dodecyl sulfate, sodium salt* CAS No.: 151-21-3
TSCA Inventory: listed California Proposition 65 List: not listed
Australia NICNAS: not listed Canada CEPA 1999: DSL yes
Japan CSCL/PRTR: PRTR - Class I Designated Chemical Substance, Japan PDSCL: not listed
Japan ISHL: not listed
South Korea TCCA: not listed
Korea Exist.Chem.Inventory: KE-21884
LD50_{orl rat}: 1288 mg/kg
LC50_{inh rat}: 3900_{1h} mg/m³

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Safety Data Sheet

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

REF: 744945.1 NucleoMag DNA Food (1x96) Page: 13/18
 Printing date: 12.05.2021 Date of issue: 20.04.2021

LD50_{drm rbt} : 10 g/kg

Chemical: *chemicals/mixture < 2%* CAS No.: -
 TSCA Inventory: all listed, <2%
 Korea Exist.Chem.Inventory: listed

100 mL CMW

Chemical: *guanidine hydrochloride* CAS No.: 50-01-1
 TSCA Inventory: listed California Proposition 65 List: not listed
 Australia NICNAS: not listed Canada CEPA 1999: DSL yes
 Japan CSCL/PRTR: not listed, Japan PDSCL: not listed
 Japan ISHL: not listed
 South Korea TCCA: not listed
 Korea Exist.Chem.Inventory: KE-18111
 LD50_{orl rat} : 475-907 mg/kg
 LC50_{ihl rat} : [4h] 3181-7655 µg/m³
 LD50_{drm rbt} : 2000 mg/kg
 Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.

Chemical: *ethylendinitrilo tetraacetic acid (EDTA)* CAS No.: 60-00-4
 TSCA Inventory: listed
 Japan CSCL/PRTR: PRTR: ≥1,0% class I
 Korea Exist.Chem.Inventory: KE-13648
 LD50_{orl rat} : 2000-4500 mg/kg

Chemical: *ethanol* CAS No.: 64-17-5
 TSCA Inventory: listed California Proposition 65 List: not listed
 ACGIH: 1000 ppm
 Exposure Routes: inhalation, ingestion, skin and/or eye contact
 Target Organs: Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system
 Symptoms: irritation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; cough;
 liver damage; anemia; reproductive, teratogenic
 Australia NICNAS: not listed Canada CEPA 1999: DSL yes
 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.Inventory: KE-13217
 LD50_{orl rat} : 6200 mg/kg
 LC_{LoWihl gpg} : 21.9 g/m³
 LC_{LoWorl hmn} : 1400 mg/kg
 LC50_{ihl mouse} : [4h] 39 g/m³
 LC50_{ihl rat} : [10h] 20 g/m³
 LD50_{drm rbt} : 20 000 mg/kg
 LD50_{oral mouse} : 3450 mg/kg

TRGS 905 (DE): K5, M5, R_F C

Chemical: *tris(hydroxymethyl)aminomethane* CAS No.: 77-86-1
 TSCA Inventory: listed California Proposition 65 List: not listed
 Australia NICNAS: not listed Canada CEPA 1999: DSL yes
 Japan CSCL/PRTR: not listed, Japan PDSCL: not listed
 Japan ISHL: not listed
 South Korea TCCA: not listed
 Korea Exist.Chem.Inventory: KE-01403
 LD50_{orl rat} : 5000 mg/kg

Chemical: *Triton® X-114* CAS No.: 9036-19-5
 TSCA Inventory: listed
 Korea Exist.Chem.Inventory: KE-33567

Safety Data Sheet

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

REF: 744945.1

NucleoMag DNA Food (1x96)

Page: 14/18

Printing date: 12.05.2021

Date of issue: 20.04.2021

125 mL CQW

Chemical: *guanidine hydrochloride* CAS No.: 50-01-1
 TSCA Inventory: listed California Proposition 65 List: not listed
 Australia NICNAS: not listed Canada CEPA 1999: DSL yes
 Japan CSCL/PRTR: not listed, Japan PDSCL: not listed
 Japan ISHL: not listed
 South Korea TCCA: not listed
 Korea Exist.Chem.Inventory: KE-18111
 LD50_{orl rat}: 475-907 mg/kg
 LC50_{ihl rat}: [4h] 3181-7655 µg/m³
 LD50_{drm rbt}: 2000 mg/kg
 Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.

Chemical: *ethanol* CAS No.: 64-17-5
 TSCA Inventory: listed California Proposition 65 List: not listed
 ACGIH: 1000 ppm
 Exposure Routes: inhalation, ingestion, skin and/or eye contact
 Target Organs: Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system
 Symptoms: irritation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; cough; liver damage; anemia; reproductive, teratogenic
 Australia NICNAS: not listed Canada CEPA 1999: DSL yes
 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.Inventory: KE-13217
 LD50_{orl rat}: 6200 mg/kg
 LC_{Lowihl gpg}: 21.9 g/m³
 LC_{Loworl hmn}: 1400 mg/kg
 LC50_{ihl mouse}: [4h] 39 g/m³
 LC50_{ihl rat}: [10h] 20 g/m³
 LD50_{drm rbt}: 20 000 mg/kg
 LD50_{oral mouse}: 3450 mg/kg
 TRGS 905 (DE): K5, M5, R_F C

1.25 mL Liquid Proteinase K

Chemical: *proteinase K, liquid (origin: tritirachium album)* CAS No.: 39450-01-61
 TSCA Inventory: listed (CAS 102925-54-2)
 Japan CSCL/PRTR: not listed
 Japan ISHL: not listed
 Korea Exist.Chem.Inventory: not listed

Chemical: *glycerole* CAS No.: 56-81-5
 TSCA Inventory: listed (1,2,3-Propanetriol)
 Exposure Routes: inhalation, skin and/or eye contact
 Target Organs: Eyes, skin, respiratory system, kidneys
 Symptoms: irritation eyes, skin, respiratory system; headache, nausea, vomiting; kidney injury
 Japan CSCL/PRTR: not listed, Japan PDSCL: not listed
 Japan ISHL: not listed
 Korea Exist.Chem.Inventory: KE-29297
 LD50_{orl rat}: 12.6 g/kg
 LD50_{drm rbt}: >18.7 g/kg
 TRGS 905 (DE): R_F C

SECTION 12: Ecological information

12.1 Toxicity

Following information is valid for pure substances.

1.5 mL B-Beads

Chemical: *magnetic particles, suspended in water* CAS No.: -
 Storage class (VCI): 12

Safety Data Sheet

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

REF: 744945.1

NucleoMag DNA Food (1x96)

Page: 15/18

Printing date: 12.05.2021

Date of issue: 20.04.2021

100 mL CB

Chemical: *guanidine hydrochloride* CAS No.: 50-01-1
 PNEC_(fresh water): -
 PNEC = Predicted No Effected Concentration
 LC50_{leuciscus idus/96h}: 1759 mg/L
 LC50_{fish/96h}: [4d] 690-1850; [48h] 1758-2420 mg/L
 EC50_{daphnia/48h}: 70.2 mg/L
 EC10_{pseudomonas putita/16h}: [72h] 11.8-33.5 mg/L
 Water hazard class (DE): 1 WGK No.: 0788
 Storage class (VCI): 12

Chemical: *2-propanol* CAS No.: 67-63-0
 PNEC_(fresh water): 140.9 mg/L
 PNEC = Predicted No Effected Concentration
 LC50_{fish/96h}: 1400 mg/L
 EC50_{daphnia/48h}: 13.3 g/L
 IC50_{scenedesmus quadricauda/72h}: >1000 mg/L
 EC10_{pseudomonas putita/16h}: EC5: 1050 mg/L
 Water hazard class (DE): 1 WGK No.: 0135
 Dispersion coefficient_(octanol-water): 0.05
 Storage class (VCI): 3

Chemical: *Triton® X-114* CAS No.: 9036-19-5
 Toxic to aquatic life with long lasting effects. Avoid contact of substance/mixture to environment.
 Environmental hazards must not be labelled with H and P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).
 Water hazard class (DE): 1
 Storage class (VCI): 12-13

30 mL CE

Chemical: *chemicals/mixture < 1%* CAS No.: -
 Water hazard class (DE): 1
 Storage class (VCI): 12-13

100 mL CF

Chemical: *dodecyl sulfate, sodium salt* CAS No.: 151-21-3
 LC50_{daphnia magna/48h}: 6.3 mg/L
 LC50_{fish/96h}: 1.31-22.5 mg/L
 Water hazard class (DE): 2
 Dispersion coefficient_(octanol-water): 1.6
 Storage class (VCI): 12-13

Chemical: *chemicals/mixture < 2%* CAS No.: -
 Water hazard class (DE): 1
 Storage class (VCI): 12-13

100 mL CMW

Chemical: *guanidine hydrochloride* CAS No.: 50-01-1
 PNEC_(fresh water): -
 PNEC = Predicted No Effected Concentration
 LC50_{leuciscus idus/96h}: 1759 mg/L
 LC50_{fish/96h}: [4d] 690-1850; [48h] 1758-2420 mg/L
 EC50_{daphnia/48h}: 70.2 mg/L
 EC10_{pseudomonas putita/16h}: [72h] 11.8-33.5 mg/L
 Water hazard class (DE): 1 WGK No.: 0788
 Storage class (VCI): 12

Chemical: *ethylendinitrilo tetraacetic acid (EDTA)* CAS No.: 60-00-4
 PNEC_(fresh water): 2.2 mg/L
 PNEC = Predicted No Effected Concentration
 LC50_{daphnia magna/48h}: [48h] 140 mg/L
 LC50_{fish/96h}: [4d] 41-1592 mg/L
 EC50_{daphnia/48h}: [24h] 480-790 mg/L
 EC10_{pseudomonas putita/16h}: [72h] 2.77-1000 mg/L
 Water hazard class (DE): 2
 Dispersion coefficient_(octanol-water): -5.01-0.13
 Storage class (VCI): 12-13



Safety Data Sheet

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

REF: 744945.1

NucleoMag DNA Food (1x96)

Page: 16/18

Printing date: 12.05.2021

Date of issue: 20.04.2021

Chemical: *ethanol* CAS No.: 64-17-5
 PNEC(fresh water) : 0.96 mg/L
 PNEC = Predicted No Effect Concentration
 LC50daphnia magna/48h : >100 mg/L
 LC50pimephales promelas/96h : 13400 - 15100 mg/L
 LC50leuciscus idus/96h : [48h] 8140 mg/L
 LC50fish/96h : 13 g/L
 EC50daphnia/48h : 9.3-14.2 g/L
 IC50scenedesmus quadricauda/72h : [7d] 5000 mg/L
 EC10pseudomonas putita/16h : [EC5] 6500 mg/L
 Water hazard class (DE): 1 WGK No.: 0096
 Dispersion coefficient(octanol-water) : -0.31
 Storage class (VCI): 3

Chemical: *tris(hydroxymethyl)aminomethane* CAS No.: 77-86-1
 PNEC(fresh water) : no data mg/L
 PNEC = Predicted No Effect Concentration
 LC50fish/96h : LD0 (4d): 1-10 g/L
 EC50pseudokirchneriella subcapitata/72h : 397;48h: 473 mg/L
 EC10pseudomonas putita/16h : 13h g/L
 Water hazard class (DE): 2
 Dispersion coefficient(octanol-water) : -1.56
 Storage class (VCI): 12-13

Chemical: *Triton® X-114* CAS No.: 9036-19-5
 Harmful to aquatic life with long lasting effects. Avoid contact of substance/mixture to environment.
 Environmental hazards must not be labelled with P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).
 Water hazard class (DE): 1
 Storage class (VCI): 12-13

125 mL CQW

Chemical: *guanidine hydrochloride* CAS No.: 50-01-1
 PNEC(fresh water) : -
 PNEC = Predicted No Effect Concentration
 LC50leuciscus idus/96h : 1759 mg/L
 LC50fish/96h : [4d] 690-1850; [48h] 1758-2420 mg/L
 EC50daphnia/48h : 70.2 mg/L
 EC10pseudomonas putita/16h : [72h] 11.8-33.5 mg/L
 Water hazard class (DE): 1 WGK No.: 0788
 Storage class (VCI): 12

Chemical: *ethanol* CAS No.: 64-17-5
 PNEC(fresh water) : 0.96 mg/L
 PNEC = Predicted No Effect Concentration
 LC50daphnia magna/48h : >100 mg/L
 LC50pimephales promelas/96h : 13400 - 15100 mg/L
 LC50leuciscus idus/96h : [48h] 8140 mg/L
 LC50fish/96h : 13 g/L
 EC50daphnia/48h : 9.3-14.2 g/L
 IC50scenedesmus quadricauda/72h : [7d] 5000 mg/L
 EC10pseudomonas putita/16h : [EC5] 6500 mg/L
 Water hazard class (DE): 1 WGK No.: 0096
 Dispersion coefficient(octanol-water) : -0.31
 Storage class (VCI): 3

1.25 mL Liquid Proteinase K

Chemical: *proteinase K, liquid (origin: tritirachium album)* CAS No.: 39450-01-61
 Water hazard class (DE): 1
 Storage class (VCI): 13

Chemical: *glycerole* CAS No.: 56-81-5
 PNEC(fresh water) : 0.885 mg/L
 PNEC = Predicted No Effect Concentration
 LC50fish/96h : >5000_{24h} mg/L
 EC50daphnia/48h : >10_{24h} g/L
 IC50scenedesmus quadricauda/72h : IC57_d >10 g/L
 EC10pseudomonas putita/16h : EC5: >10 g/L
 Water hazard class (DE): 0
 Dispersion coefficient(octanol-water) : -1.76



Safety Data Sheet

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

REF: 744945.1

NucleoMag DNA Food (1x96)

Page: 17/18

Printing date: 12.05.2021

Date of issue: 20.04.2021

Storage class (VCI): 10

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: 1993 **14.2 UN proper shipping name:** Flammable liquid, n.o.s. (ethanol, 2-propanol mixture)

14.3 Class: 3 **14.4 Packing group:** II

Road transport

Classification code: F1

Limited Quantity: 1 L

Excepted Quantity: E 2

Air transport

PAX: 353

CAO: 364

Maritime transport

EmS: F-E, S-E

Tunnel restriction code: E

Special instructions: 640C

max. weight PAX: 5 L

max. weight CAO: 60 L

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 ---

Safety Data Sheet

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

REF: 744945.1

NucleoMag DNA Food (1x96)

Page: 18/18

Printing date: 12.05.2021

Date of issue: 20.04.2021

SECTION 16: Other information

16.1 List of H and P phrases

16.1.1 List of relevant H phrases

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye 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.

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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

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