

Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740491.1	NucleoSpin 96 Plasmid T.-grade (1x96)	Page: 1/14
Printing Date: 27.02.2020	Date of Issue: 03.06.2019	

Section 1: Identification

1.1 Product Identifier / Product Name

REF	740491.1
Product Name	NucleoSpin 96 Plasmid T.-grade (1x96)
-	1 x 75 mL A1
	1 x 100 mL A2 (with LyseControl)
	1 x 100 mL A3
	1 x 30 mL AE
	1 x 100 mL AQ
	1 x 125 mL ERB
	1 x 25-100 mg RNase A (Iyo)

1.2 Relevant identified Uses of the Substance or Mixture and Uses advised against

Relevant identified uses
 Product for Analytical Use.
 The Exposure scenario is integrated into sections 1-16.
Uses advised against
 not described

1.3 Details of the Supplier and of the Safety Data Sheet

Manufactured by:
 MACHEREY-NAGEL GmbH & Co. KG
 Neumann-Neander-Str. 6-8, 52355 Dueren, GERMANY
 Tel.: +49 2421 969 0

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

1.4 Emergency Telephone Number

For Chemical Emergency
 Spill, Leak, Fire, Exposure, or Accident
 Call CHEMTREC Day or Night (CCN685047)
 Within USA and Canada: **1-800-424-9300**
 Outside USA and Canada: **+1 703-527-3887** (collect calls accepted)

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

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

Section 2: Hazard(s) Identification

2.0 Classification of the complete Product



GHS02 GHS07 GHS08

Signal Word DANGER

Hazard Identification	Hazard Classes/Categories
H226	Flam. Liq. 3
H302	Acute Tox. 4 oral
H315	Skin Irrit. 2
H319	Eye Irrit. 2
H334	Resp. Sens. 1
H336	STOT SE 3

2.1 Classification of the Substance(s) or Mixture(s)

75 mL A1

Do not need labelling as hazardous

Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740491.1 NucleoSpin 96 Plasmid T.-grade (1x96) Page: 2/14
 Printing Date: 27.02.2020 Date of Issue: 03.06.2019

Signal Word -

No Hazard Class

100 mL A2 (with LyseControl)



GHS07

Signal Word WARNING

Hazard Identification	Hazard Classes/Categories
H315	Skin Irrit. 2
H319	Eye Irrit. 2

100 mL A3



GHS07

Signal Word WARNING

Hazard Identification	Hazard Classes/Categories
H302	Acute Tox. 4 oral
H319	Eye Irrit. 2

30 mL AE

Signal Word Do not need labelling as hazardous

No Hazard Class -

100 mL AQ

Signal Word Do not need labelling as hazardous

No Hazard Class -

125 mL ERB



GHS02



GHS07

Signal Word WARNING

Hazard Identification	Hazard Classes/Categories
H226	Flam. Liq. 3
H319	Eye Irrit. 2
H336	STOT SE 3

25-100 mg RNase A (Iyo)

Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740491.1

NucleoSpin 96 Plasmid T.-grade (1x96)

Page: 3/14

Printing Date: 27.02.2020

Date of Issue: 03.06.2019



GHS08

Signal Word

DANGER

Hazard Identification

Hazard Classes/Categories

H334

Resp. Sens. 1

2.2 Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

According to the implementation of GHS immediate packages only must be labelled with product identifier(s), GHS symbol(s), signal word, manufacturer name and phone number (OSHA's interpretation of HCS 2012).

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) / **until 100 mL** (Canada WHMIS 2015). This labelling exemption does not apply to U.S.A. This labelling exemption is NOT valid for sensiblizing substances.

75 mL A1

Do not need labelling as hazardous
Signal Word: -

100 mL A2 (with LyseControl)



GHS07

Signal Word: WARNING

100 mL A3



GHS07

Signal Word: WARNING

30 mL AE

Do not need labelling as hazardous
Signal Word: -

100 mL AQ

Do not need labelling as hazardous
Signal Word: -

125 mL ERB



GHS02



GHS07

Signal Word: WARNING

25-100 mg RNase A (Iyo)

Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740491.1

NucleoSpin 96 Plasmid T.-grade (1x96)

Page: 4/14

Printing Date: 27.02.2020

Date of Issue: 03.06.2019



GHS08

Signal Word: DANGER

H334

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

P261sh, P342+311

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

2.3 Other Hazards

Possible Hazards from physicochemical Properties

In the case of pH values are less than 5 or higher than 9 then it is irritant. Flammable properties. ---

Information pertaining to particular Risks to Human and possible Symptoms

Cause after oral intake, impairments of health when ingested in small quantities. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Kit contains small amounts of enzymes, which may cause sensitization by direct and repeated contact. -

Information pertaining to particular Risks to the Environment

PBT: not applicable

vPvB: not applicable

Other Hazards

Section 3: Composition/Information on Ingredients

3.1 Substances or 3.2 Mixtures

75 mL A1

Chemical: *chemicals/mixture < 1%*

CAS No.: -

Classification: No criteria for classification or naming of chemical is not required.

TSCA Inventory: all listed, <1%

Weight Percent: 0,1 - <1 %

acc. GHS: The criteria for classification are not fulfilled.

100 mL A2 (with LyseControl)

Chemical: *sodium hydroxide solution (diluted < 2 %)*

CAS No.: 1310-73-2d

Classification: H314, Skin Corr. 1B

Chemical Formula: NaOH•H₂O

Synonyms: diluted soda lye

TSCA Inventory: listed

RTECS: WB4900000

EC No.: 215-185-5

Indice No.: 011-002-00-6

Weight Percent: 0,5 - <1 %

acc. GHS: H315, Skin Irrit. 2, H319, Eye Irrit. 2

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

Chemical Formula: C₁₂H₂₅NaO₄S

Synonyms: sodium lauryl sulfate, sulfuric acid monododecyl ester sodium salt

TSCA Inventory: listed

RTECS: WT1050000

MFCD: 00036175

EC No.: 205-788-1

Weight Percent: 0,1 - <1 %

acc. GHS: The criteria for classification are not fulfilled.

Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740491.1

NucleoSpin 96 Plasmid T.-grade (1x96)

Page: 5/14

Printing Date: 27.02.2020

Date of Issue: 03.06.2019

Chemical: *indicator dye(s)* CAS No.: -
 Classification: No criteria for classification or naming of chemical is not required.
 TSCA Inventory: all listed, <1%
 Weight Percent: < 0,01 %
 acc. GHS: The criteria for classification are not fulfilled.

100 mL A3

Chemical: *guanidine hydrochloride* CAS No.: 50-01-1
 Classification: H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2
 Chemical Formula: CH₆ClN₃
 Synonyms: guanidinium chloride
 TSCA Inventory: listed
 RTECS: MF4300000 MFCD: 00013026
 EC No.: 200-002-3 Indice No.: 607-148-00-0
 Weight Percent: 36 - <50 %
 acc. GHS: H302, Acute Tox. 4 oral, H319, Eye Irrit. 2

30 mL AE

Chemical: *chemicals/mixture < 1%* CAS No.: -
 Classification: No criteria for classification or naming of chemical is not required.
 TSCA Inventory: all listed, <1%
 Weight Percent: 0,1 - <1 %
 acc. GHS: The criteria for classification are not fulfilled.

100 mL AQ

Chemical: *inorganic salts, declaration not necessary* CAS No.: -
 Classification: No criteria for classification or naming of chemical is not required.
 Synonyms: not hazardous
 TSCA Inventory: all listed
 Weight Percent: 1 - <3 %
 acc. GHS: The criteria for classification are not fulfilled.

125 mL ERB

Chemical: *triethanolamine* CAS No.: 102-71-6
 Classification: H315, Skin Irrit. 2, H319, Eye Irrit. 2, H335, STOT SE 3
 Chemical Formula: C₆H₁₅NO₃
 Synonyms: 2,2',2"-nitrioltriethanol; tris(2-hydroxyethyl)amine
 TSCA Inventory: listed
 RTECS: KL9275000
 EC No.: 203-049-8
 Weight Percent: 1 - <10 %
 acc. GHS: The criteria for classification are not fulfilled.

Chemical: *2-propanol* CAS No.: 67-63-0
 Classification: H225, Flam. Liq. 2, H319, Eye Irrit. 2, H336, STOT SE 3
 Chemical Formula: C₃H₈O
 Synonyms: isopropanol, IPA, propan-2-ol
 TSCA Inventory: listed
 RTECS: NT8050000 MFCD: 00011674
 EC No.: 200-661-7 Indice No.: 603-117-00-0
 Weight Percent: 35 - <50 %
 acc. GHS: H226, Flam. Liq. 3, H319, Eye Irrit. 2, H336, STOT SE 3

25-100 mg RNase A (Iyo)

Chemical: *RNase* CAS No.: 9001-99-4
 Classification: H334, Resp. Sens. 1
 Chemical Formula: Enzyme Comm. No. 3.1.27.5, origin: bovine pancreas (controlled population)
 Synonyms: Nuclease, ribo-
 TSCA Inventory: listed
 RTECS: RF0760000
 EC No.: 232-646-6
 Weight Percent: 90 - <100 %
 acc. GHS: H334, Resp. Sens. 1



Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740491.1

NucleoSpin 96 Plasmid T.-grade (1x96)

Page: 6/14

Printing Date: 27.02.2020

Date of Issue: 03.06.2019

3.3 Remarks

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

List of Hazard and Precaution phrases: see section 16.1

Section 4: First-Aid Measures

4.1 Description of First-Aid Measures

Place insured person out of danger zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitation if necessary. If necessary contact medical advice. Take to a doctor, in a raised position if there are breathing difficulties.

4.1.1 After SKIN Contact

Remove contaminated clothing. Rinse the affected skin or mucous membrane thoroughly under running water. (If possible) use soap.

4.1.2 After EYE Contact

After contact with the eyes rinse thoroughly under running water with the eyelid wide open with eye washing bottle, eye douche or running water (protect intact eye).

4.1.3 After INHALATION of Vapors

After inhalation of foam or vapor fresh air should be inhaled. Keep airways free. Administer a Dexamethasone spray as soon as possible. Ensure quiet, warmth, and provide resuscitation if necessary. In the event of respiratory distress ensure that the patient inhales oxygen. Secure the breathing, heart and circulatory function.

4.1.4 After ORAL Intake

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

4.2 Most important Symptoms and Effects, both acute and delayed

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

4.3 Indication of any immediate Medical Attention and Special Treatment needed

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

Section 5: Fire-Fighting Measures

5.1 Extinguishable 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 WATER FOG, WATER SPRAY, alcohol-resistant FOAM, DRY CHEMICAL, CARBON DIOXIDE can be used.

5.2 Special Hazards arising from the Substance or Mixture

WARNING: Flammable. May form explosive vapor-air mixtures. Formation of hazardous and caustic vapor-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 Procedure

Do not breathe vapors. Regular staff training is necessary, indicating hazards and precautions on the basis of operating instructions. Restrictions on activity must be observed.

6.2 Environmental Precautions

not necessary

6.3 Methods and Material for Containment and Cleaning up

Bind any escaping liquid with inert absorbent.

And dispose in accordance to local regulations for the disposal of hazards. Clean any contaminated equipment and floors with plenty of water. Collect small amounts of leaked liquid and flush with water into sewer.

6.4 Reference to other Sections

Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740491.1

NucleoSpin 96 Plasmid T.-grade (1x96)

Page: 7/14

Printing Date: 27.02.2020

Date of Issue: 03.06.2019

Section 7: Handling and Storage

7.1 Precautions for Safe Handling

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

7.2 Conditions for Safe Storage, including any Incompatibilities

The original product package of MACHEREY-NAGEL allows a safe storage.

Storage class (VCI): 3

Water hazard class (DE): 2

7.2.1 Conditions for Safe Storage, including any Incompatibilities

Keep original product packages tightly closed during handling and storage.

7.3 Specific End Use(s)

Product for analytical use.

Section 8: Exposure Controls/Personal Protection

8.1 Control Parameters

75 mL A1

Chemical: *chemicals/mixture < 1%*

CAS No.: -

100 mL A2 (with LyseControl)

Chemical: *sodium hydroxide solution*

CAS No.: 1310-73-2d

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: *indicator dye(s)*

CAS No.: -

100 mL A3

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

30 mL AE

Chemical: *chemicals/mixture < 1%*

CAS No.: -

100 mL AQ

Chemical: *inorganic salts, declaration not necessary*

CAS No.: -

125 mL ERB

Chemical: *triethanolamine*

CAS No.: 102-71-6

DNEL: [derm] 6.3; [inh] 5 mg/m³

DNEL = Derived No-Effect Level (for workers)

PNEC(fresh water): 0.32 mg/L

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: *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

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

Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740491.1

NucleoSpin 96 Plasmid T.-grade (1x96)

Page: 8/14

Printing Date: 27.02.2020

Date of Issue: 03.06.2019

OSHA: [TWA] 400 ppm / 980 mg/m³

25-100 mg RNase A (lyo)

Chemical: RNase

CAS No.: 9001-99-4

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

Use for open access of these substances for example a vapor/dust respirator, class A/AX. No additional recommendations.

8.2.2 Hand Protection

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

8.2.3 Eye/Face Protection

Yes, Splash Goggles.

8.2.4 Skin Protection

Recommended to avoid contamination with these hazards.

8.2.5 Hygiene Measures

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

Section 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

75 mL A1

a) Appearance: liquid	Color: colorless	b) Odor: odorless
c) Odor Threshold:	data not available	
d) pH:	7.5-8.5	
e) Melting Point:	data not available	
f) Boiling Point:	data not available	
g) Flash Point:	data not available	
h) Evaporation Rate _(ether=1) :	data not available	
i) Flammability (solid, gas):	data not available	
j) Explosive Limits:	data not available	
k) Vapor Pressure (68°F):	data not available	
l) Vapor Density _(air=1) :	data not available	
m) Specific Gravity:	1.00 g/cm ³	
n) Soluble in Water:	data not available	
o) Partition Coefficient (o-w):	data not available	
p) Autoignition Temperature:	data not available	
q) Decomposition temperature:	data not available	
r) Viscosity:	data not available	
s) Explosive properties:	data not available	
t) Oxidizing properties:	---	

100 mL A2 (with LyseControl)

a) Appearance: liquid	Color: blue	b) Odor: odorless
c) Odor Threshold:	data not available	
d) pH:	13	
e) Melting Point:	data not available	
f) Boiling Point:	data not available	
g) Flash Point:	data not available	
h) Evaporation Rate _(ether=1) :	data not available	
i) Flammability (solid, gas):	data not available	
j) Explosive Limits:	data not available	
k) Vapor Pressure (68°F):	data not available	
l) Vapor Density _(air=1) :	data not available	
m) Specific Gravity:	1.008 g/cm ³	
n) Soluble in Water:	data not available	
o) Partition Coefficient (o-w):	data not available	
p) Autoignition Temperature:	data not available	

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MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany

DE/international:

CH:

FR:

US:

Tel.: +49 24 21 969-0

Tel.: +41 62 388 55 00

Tel.: +33 388 68 22 68

Tel.: +1 484 821 0984

Fax: +49 24 21 969-199

Fax: +41 62 388 55 05

Fax: +33 388 51 76 88

Fax: +1 484 821 1272

E-mail: info@mn-net.com

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

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

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

Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740491.1

NucleoSpin 96 Plasmid T.-grade (1x96)

Page: 9/14

Printing Date: 27.02.2020

Date of Issue: 03.06.2019

- q) Decomposition temperature: data not available
 r) Viscosity: data not available
 s) Explosive properties: data not available
 t) Oxidizing properties: ---

100 mL A3

- | | | | |
|----|---|------------------------|-----------------|
| a) | Appearance: liquid | Color: colorless | b) Odor: acetic |
| c) | Odor Threshold: | data not available | |
| d) | pH: | 4-4.5 | |
| e) | Melting Point: | data not available | |
| f) | Boiling Point: | data not available | |
| g) | Flash Point: | data not available | |
| h) | Evaporation Rate _(ether=1) : | data not available | |
| i) | Flammability (solid, gas): | data not available | |
| j) | Explosive Limits: | data not available | |
| k) | Vapor Pressure (68°F): | data not available | |
| l) | Vapor Density _(air=1) : | data not available | |
| m) | Specific Gravity: | 1.14 g/cm ³ | |
| n) | Soluble in Water: | data not available | |
| o) | Partition Coefficient (o-w): | data not available | |
| p) | Autoignition Temperature: | data not available | |
| q) | Decomposition temperature: | data not available | |
| r) | Viscosity: | data not available | |
| s) | Explosive properties: | data not available | |
| t) | Oxidizing properties: | --- | |

30 mL AE

- | | | | |
|----|---|-----------------------|-------------------|
| a) | Appearance: liquid | Color: colorless | b) Odor: odorless |
| c) | Odor Threshold: | data not available | |
| d) | pH: | 8-9 | |
| e) | Melting Point: | data not available | |
| f) | Boiling Point: | data not available | |
| g) | Flash Point: | data not available | |
| h) | Evaporation Rate _(ether=1) : | data not available | |
| i) | Flammability (solid, gas): | data not available | |
| j) | Explosive Limits: | data not available | |
| k) | Vapor Pressure (68°F): | data not available | |
| l) | Vapor Density _(air=1) : | data not available | |
| m) | Specific Gravity: | 1.0 g/cm ³ | |
| n) | Soluble in Water: | data not available | |
| o) | Partition Coefficient (o-w): | data not available | |
| p) | Autoignition Temperature: | data not available | |
| q) | Decomposition temperature: | data not available | |
| r) | Viscosity: | data not available | |
| s) | Explosive properties: | data not available | |
| t) | Oxidizing properties: | --- | |

100 mL AQ

- | | | | |
|----|---|------------------------|-------------------|
| a) | Appearance: liquid | Color: colorless | b) Odor: odorless |
| c) | Odor Threshold: | data not available | |
| d) | pH: | 7.5-8 | |
| e) | Melting Point: | data not available | |
| f) | Boiling Point: | data not available | |
| g) | Flash Point: | data not available | |
| h) | Evaporation Rate _(ether=1) : | data not available | |
| i) | Flammability (solid, gas): | data not available | |
| j) | Explosive Limits: | data not available | |
| k) | Vapor Pressure (68°F): | data not available | |
| l) | Vapor Density _(air=1) : | data not available | |
| m) | Specific Gravity: | 1.01 g/cm ³ | |
| n) | Soluble in Water: | data not available | |
| o) | Partition Coefficient (o-w): | data not available | |
| p) | Autoignition Temperature: | data not available | |
| q) | Decomposition temperature: | data not available | |
| r) | Viscosity: | data not available | |
| s) | Explosive properties: | data not available | |
| t) | Oxidizing properties: | --- | |

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Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740491.1

NucleoSpin 96 Plasmid T.-grade (1x96)

Page: 10/14

Printing Date: 27.02.2020

Date of Issue: 03.06.2019

125 mL ERB

a)	Appearance: liquid	Color: colorless	b) Odor: alcoholic
c)	Odor Threshold:	data not available	
d)	pH:	5.5-6.5	
e)	Melting Point:	data not available	
f)	Boiling Point:	data not available	
g)	Flash Point:	24 °C	
h)	Evaporation Rate _(ether=1) :	data not available	
i)	Flammability (solid, gas):	data not available	
j)	Explosive Limits:	data not available	
k)	Vapor Pressure (68°F):	data not available	
l)	Vapor Density _(air=1) :	data not available	
m)	Specific Gravity:	data not available	
n)	Soluble in Water:	0-100 %	
o)	Partition Coefficient (o-w):	data not available	
p)	Autoignition Temperature:	data not available	
q)	Decomposition temperature:	data not available	
r)	Viscosity:	data not available	
s)	Explosive properties:	data not available	
t)	Oxidizing properties:	---	

25-100 mg RNase A (lyo)

a)	Appearance: solid (lyoph.)	Color: colorless	b) Odor: odorless
c)	Odor Threshold:	data not available	
d)	pH:	data not available	
e)	Melting Point:	data not available	
f)	Boiling Point:	data not available	
g)	Flash Point:	data not available	
h)	Evaporation Rate _(ether=1) :	data not available	
i)	Flammability (solid, gas):	data not available	
j)	Explosive Limits:	data not available	
k)	Vapor Pressure (68°F):	data not available	
l)	Vapor Density _(air=1) :	data not available	
m)	Specific Gravity:	data not available	
n)	Soluble in Water:	0-100 %	
o)	Partition Coefficient (o-w):	data not available	
p)	Autoignition Temperature:	data not available	
q)	Decomposition temperature:	data not available	
r)	Viscosity:	data not available	
s)	Explosive properties:	data not available	
t)	Oxidizing properties:	---	

9.2 Other Information

Data for the other parameters of the mixtures are not available.

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

Can form very reactive substances with oxidizing agents. No further data available.

10.4 Conditions to avoid

Not necessary. ---

10.5 Incompatible Materials

Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740491.1

NucleoSpin 96 Plasmid T.-grade (1x96)

Page: 11/14

Printing Date: 27.02.2020

Date of Issue: 03.06.2019

Avoid contact with strong acids or alkalines. ---

10.6 Hazardous Decomposition Products

In the original package all parts/all reagents are safety and separated stored. Decompositions are not observed during the expiration period under recommended conditions.

Section 11: Toxicological Information

11.1 Information on Toxicological Effects

Following information is valid for pure chemicals. Quantitative data on the toxicity of this product are not available.

75 mL A1

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

100 mL A2 (with LyseControl)

Chemical: *sodium hydroxide solution* CAS No.: 1310-73-2d
TSCA Inventory: listed California Prop. 65 List: not listed
Exposure Routes: inhalation, ingestion, skin and/or eye contact
Target Organs: Eyes, skin, respiratory system
Symptoms: -
LD50_{orl rat}: [$< 1\%$] > 50 g/kg
LD50_{orl mus}: [$< 1\%$] > 4 g/kg

Chemical: *dodecyl sulfate, sodium salt* CAS No.: 151-21-3
TSCA Inventory: listed California Prop. 65 List: not listed
Canada CEPA 1999: DSL yes
LD50_{orl rat}: 1288 mg/kg
LC50_{inh rat}: 3900_{th} mg/m³
LD50_{drm rbt}: 10 g/kg

Chemical: *indicator dye(s)* CAS No.: -
TSCA Inventory: all listed, <1%

100 mL A3

Chemical: *guanidine hydrochloride* CAS No.: 50-01-1
TSCA Inventory: listed California Prop. 65 List: not listed
Canada CEPA 1999: DSL yes
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.

30 mL AE

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

100 mL AQ

Chemical: *inorganic salts, declaration not necessary* CAS No.: -
TSCA Inventory: all listed

125 mL ERB

Chemical: *triethanolamine* CAS No.: 102-71-6
TSCA Inventory: listed California Prop. 65 List: not listed
Canada CEPA 1999: DSL Yes
LD50_{orl rat}: > 5000 mg/kg
LD50_{drm rbt}: > 2000 mg/kg

Chemical: *2-propanol* CAS No.: 67-63-0
TSCA Inventory: listed California Prop. 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
Canada CEPA 1999: DSL yes
LD50_{orl rat}: 5045 mg/kg

www.mn-net.com

Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740491.1 NucleoSpin 96 Plasmid T.-grade (1x96) Page: 12/14
 Printing Date: 27.02.2020 Date of Issue: 03.06.2019

LC₅₀LowOrl hmn : 3570 mg/kg
 LC50_{ihl} rat : 164h g/m³
 LD50_{drmm} rbt : 12.8 g/kg

25-100 mg RNase A (Iyo)

Chemical: *RNase* CAS No.: 9001-99-4
 TSCA Inventory: listed
 LD50_{intraperitoneal} rat : 392 mg/kg
 Acute Effects: Cause after impairments of health when ingested in small quantities.
 Chronic Effects: May cause sensitization by skin contact, also in repeated contact of small amounts. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Section 12: Ecological Information

12.1 Toxicity

Following information is valid for pure chemicals.

75 mL A1

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

100 mL A2 (with LyseControl)

Chemical: *sodium hydroxide solution* CAS No.: 1310-73-2d
 LC50_{leuciscus idus/96h} : 35-189 mg/L
 LC50_{fish/96h} : 45.4 mg/L
 EC50_{daphnia/48h} : >100 mg/L

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
 Partition Coefficient (o-w): 1.6

Chemical: *indicator dye(s)* CAS No.: -

100 mL A3

Chemical: *guanidine hydrochloride* CAS No.: 50-01-1
 PNEC_(fresh water) : -
 PNEC = Predicted No Effect 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

30 mL AE

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

100 mL AQ

Chemical: *inorganic salts, declaration not necessary* CAS No.: -

125 mL ERB

Chemical: *triethanolamine* CAS No.: 102-71-6
 PNEC_(fresh water) : 0.32 mg/L
 PNEC = Predicted No Effect Concentration
 LC50_{fish/96h} : >1000 mg/L
 EC50_{daphnia/48h} : >1000_{24h} mg/L
 Partition Coefficient (o-w): -2.3

Chemical: *2-propanol* CAS No.: 67-63-0
 PNEC_(fresh water) : 140.9 mg/L
 PNEC = Predicted No Effect 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
 Partition Coefficient (o-w): 0.05

Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740491.1

NucleoSpin 96 Plasmid T.-grade (1x96)

Page: 13/14

Printing Date: 27.02.2020

Date of Issue: 03.06.2019

25-100 mg RNase A (lyo)

Chemical: RNase

CAS No.: 9001-99-4

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 (RCRA Code D002/D003, EU waste code number 16 05 06).

13.1 Waste Treatment Methods

Normally it is possible to empty small amounts (diluted!) into drains.

Section 14: Transport Information

14.1 - 14.4: No dangerous goods according the Transport regulations

14.5 Environmental Hazards

none, contains only small quantities of hazardous substances

14.6 Special Precautions for User

not necessary

14.7 Transport in Bulk according to Annex II of MARPOL and the IBC Code

not applicable

Section 15: Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

U.S. Federal Regulations

OSHA "A Guide to The Globally Harmonized System of Classification and Labelling of Chemicals (GHS)"

<https://www.osha.gov/dsg/hazcom/ghs.html>

29 CFR 1910.1200 Hazard communication.

NIOSH Pocket Guide to Chemical Hazards

NIOSH Workplace Safety & Health Topics

TSCA Inventory

U.S. State Regulations

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

Canada

Canada CEPA 1999 - Domestic Substances List (DSL), List of Toxic Substances (Schedule 1)

MN Leaflet/User manual, also see www.mn-net.com

15.2 Chemical Safety Assessment

not necessary for these small amounts ---

Section 16: Other Information

16.1 List of Hazard and Precaution Phrases

16.1.1 List of relevant H Phrases

H226	Flammable liquid and vapor.
H302	Harmful if swallowed.

Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740491.1

NucleoSpin 96 Plasmid T.-grade (1x96)

Page: 14/14

Printing Date: 27.02.2020

Date of Issue: 03.06.2019

H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H336 May cause drowsiness or dizziness.

16.1.2 List of relevant P Phrases

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 P260D Do not breathe vapors.
 P261sh Avoid breathing dust/vapors.
 P264W Wash with water thoroughly after handling.
 P280sh Wear protective gloves/eye protection.
 P301+312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
 P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P330 Rinse mouth.
 P342+311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

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!
 Look about employee restrictions for pregnant women and nursing women!
 An individual package of this product or test kit has a moderate hazardous potential.

16.4 Further Information

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16.5 Sources of Key Data

GHS: EU Regulation 1272/2008/EC on Classification, Labelling and Packaging of Substances and Mixtures, amending and repealing EU Directives 67/548/EEC and 1999/45/EC, and amending EU Regulation 1907/2006/EC
 SDS: EU Regulation 453/2010/EU REACH - Requirements for the Compilation of Safety Data Sheets
 KÜHN, BIRETT (German), Data Sheets of Hazardous Substances

Revisions/Updates

Reason for Revision: 2016-03 Adaptation of European Regulation 1221/2015/EU

You find our current Versions of SDS in Internet:

<http://www.mn-net.com/SDS> [U.S. English]