

Safety Data Sheet

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

NucleoSpin Plasmid Buffer Set Page: 1/10

Printing date: 12.05.2021 Date of issue: 11.12.2020

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

1.1 **Product identifier**

REF 740953

Product name NucleoSpin Plasmid Buffer Set

REACH Registration number(s): see SECTION 3.1/3.2 or
A registration number for the substance(s) does not exist because the annual tonnage does not require registration or

the substance or its use is excluded from registration.

1 x 75 mL A1

1 x 100 mL A2 (with LyseControl) 1 x 100 mL A3

1 x 0.6-100 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.

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.

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 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. 99089 Erfurt tel. +49 361 730 730 DE: Gemeinsames Giftinformationszentrum (GGIZ)

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





GHS07

GHS08

DANGER Signal word

Hazard identification	Hazard classes/categories
H302	Acute Tox. 4 oral
H315	Skin Irrit. 2
H319	Eye Irrit. 2
H334	Resp Sens 1

Classification of the substance or mixture 2.1

75 mL A1

Do not need labelling as hazardous

Signal word

No hazard class

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100 mL A2 (with LyseControl)



Signal word WARNING

Hazard identification Hazard classes/categories H315 Skin Irrit. 2 H319 Eye Irrit. 2

100 mL A3



Signal word WARNING

Hazard identification Hazard classes/categories H302 Acute Tox. 4 oral H319 Eye Irrit. 2

0.6-100 mg RNase A (Iyo)



Signal word **DANGER**

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

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 must not be labelled with H and P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2). This labelling exemption is NOT valid for sensibilizing substances.

Do not need labelling as hazardous Signal word: -

100 mL A2 (with LyseControl)



Signal word: WARNING

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100 mL A3



Signal word: WARNING

0.6-100 mg RNase A (Iyo)



GHS08

Signal word: DANGER

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

P261sh, P342+311

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

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. ---

Information pertaining to particular risks to human and possible symptoms

Cause after oral intake, impairments of health when ingested in small quantities.

Kit contains small amounts of enzymes: May cause allergy or asthma symptoms or breathing difficulties if inhaled. -

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 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 A2 (with LyseControl)

Chemical: sodium hydroxide solution (diluted < 2 %) CAS No.: 1310-73-2d

Classification: H314, Skin Corr. 1B NaOH•H2O Formula: Pseudonym: diluted soda lye

TSCA Inventory: listed

REACH Reg. No.: 01-2119457892-27-xxxx

EC No.: 215-185-5 011-002-00-6 Indice No.:

RTECS: WB4900000 KE No.: KE-31487 Concentration: 0.5 - < 1.%

acc. CLP (GHS): H315, Skin Irrit. 2, H319, Eye Irrit. 2

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

H228, Flam. Sol. 1, H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H318, Eye Dam. 1, H332, Acute Classification:

Tox. 4 inh., H335, STOT SE 3, H412, Aquatic Chronic 3

Formula: C₁₂ H₂₅ NaO₄ S

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

TSCA Inventory: listed

REACH Reg. No.: 01-2119489461-32-xxxx

205-788-1 EC No.:

RTECS: WT1050000 MFCD: 00036175

KE-21884 KE No.: Concentration: 0.1 - <1 %

acc. CLP (GHS): The criteria for classification are not fulfilled.

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

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

TSCA Inventory: all listed, <1% Concentration: < 0.10 %

acc. CLP (GHS): The criteria for classification are not fulfilled

100 mL A3

guanidine hydrochloride Chemical: CAS No.: 50-01-1

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

Formula: CH₆ CIN₃

guanidinium chloride Pseudonym: 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: 36 - < 50 %

acc. CLP (GHS): H302, Acute Tox. 4 oral, H319, Eye Irrit. 2

0.6-100 mg RNase A (Iyo)

CAS No. 9001-99-4 Chemical:

Classification: H334, Resp. Sens. 1

Enzyme Comm. No. 3.1.27.5, origin: bovine pancreas (controlled population) Formula:

Pseudonym: Nuclease, ribo-TSCA Inventory: listed 232-646-6 EC No.: **RTECS** RF0760000 KE No.: KE-30341 Concentration: 90 - <100 %

acc. CLP (GHS): H334, Resp. Sens. 1

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. 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.

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 vapours

Administer a Dexamethasone spray as soon as possible. Ensure quiet, warmth, and provide resuscitation if necessary. In the event of respiratory distress ensure that the patient inhales oxygen. Secure the breathing, heart and circulatory function. ---

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4.1.4 After ORAL Intake

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

Most important symptoms and effects, both acute and delayed 4.2

> 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: 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

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

> 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

> And dispose in accordance to local regulations for the disposal of hazardous chemicals. Clean any contaminated equipment and floors with plenty of water.

6.4 Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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. 12

Storage class (VCI):

Water hazard class (DE):

7.2.1 Requirements for stock rooms and containers

Keep original product packages tightly closed during handling and storage.

7.3 Specific end use(s)

Product for analytical use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

75 mL A1

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

100 mL A2 (with LyseControl)

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REF: 740953 NucleoSpin Plasmid Buffer Set Page: 6/10

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> Chemical: sodium hydroxide solution CAS No.: 1310-73-2d

dodecyl sulfate, sodium salt Chemical: 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 Effected 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:

0.6-100 mg RNase A (Iyo)

CAS No.: 9001-99-4 Chemical:

8.2 **Exposure controls**

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 protection filter, class A/AX. No additional recommendations.

8.2.2

Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC (f.ex. from Ansell or KCL).

8.2.3

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

8.2.4 Skin protection

Recommended to avoid contamination with these hazards.

8.2.5

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

Appearance: liquid Colour: colourless Odor: odorless

7 5-8 5 pH: Specific gravity: 1.00 g/cm³

100 mL A2 (with LyseControl)

Appearance: liquid Colour: blue Odor: odorless

Specific gravity: 1.008 g/cm³

100 mL A3

Appearance: liquid Colour: colourless Odor: acetic

4-4 5 Specific gravity: 1.14 g/cm³

0.6-100 mg RNase A (Iyo)

Appearance: solid (lyoph.) Colour: colourless Odor: odorless

Solubility in water: 0-100 %

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9.2 Other information

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.

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.

75 mL A1

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

TSCA Inventory: all listed, <1%

Korea Exist.Chem.Inventory: listed

100 mL A2 (with LyseControl)

Chemical: sodium hydroxide solution CAS No.: 1310-73-2d

TSCA Inventory: California Proposition 65 List: not listed listed

Exposure Routes: inhalation, ingestion, skin and/or eye contact

Target Organs: Eyes, skin, respiratory system

Symptoms:

Japan CSCL/PRTR: not listed, Japan PDSCL: not listed Japan ISHL: listed ≥1,0%/≥1,0% SDS required

Korea Exist.Chem.Inventory: KE-31487 LD50_{orl rat}: [< 1%] > 50 g/kg not applicable LD50_{drm rbt}: LD50_{orl mus}: [< 1%] > 4 g/kg

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

TSCA Inventory: California Proposition 65 List: not listed 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 LD50_{drm rbt}: 10 g/kg

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

TSCA Inventory: all listed, <1%

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100 mL A3

Chemical: guanidine hydrochloride CAS No.: 50-01-1

TSCA Inventory: listed California Proposition 65 List: not listed not listed Australia NICNAS: 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 [4h] 3181-7655 µg/m³ LC50_{ihl rat}: LD50_{drm rbt}: 2000 mg/kg

Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.

0.6-100 mg RNase A (lyo)

Chemical: CAS No.: 9001-99-4

TSCA Inventory: listed Japan CSCL/PRTR: not listed Japan ISHL: not listed Korea Exist.Chem.Inventory: KE-30341 392 mg/kg LD50intraperitonaeal rat:

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

Following information is valid for pure substances.

75 mL A1

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

Water hazard class (DE): Storage class (VCI): 12-13

100 mL A2 (with LyseControl)

CAS No.: 1310-73-2d Chemical. sodium hydroxide solution

35-189 mg/L LC50leuciscus idus/96h: LC50_{fish/96h}: 45.4 mg/L EC50_{daphnia/48h}: >100 mg/L

Water hazard class (DE): nwg WGK No.: 0142

Storage class (VCI):

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

LC50_{daphnia magna/48h}: 6.3 mg/L LC50_{fish/96h}: 1.31-22.5 mg/L

Water hazard class (DE): Dispersion coefficient_(octanol-water): 1.6 Storage class (VCI): 12-13

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

Storage class (VCI):

100 mL A3

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

[72h] 11.8-33.5 mg/L EC10pseudomonas putita/16h: WGK No.: 0788 Water hazard class (DE):

Storage class (VCI): 12

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0.6-100 mg RNase A (Iyo)

RNase CAS No.: 9001-99-4 Chemical:

Water hazard class (DE): Storage class (VCI): 13

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

SECTION 14: Transport information

14.1 - 14.4: No dangerous goods according the transport regulations

14.5 **Environmental hazards**

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

Look for your country-specific regulations.

15.2 Chemical safety assessment

not necessary for these small amounts ---

SECTION 16: Other information

16.1 List of H and P phrases

16.1.1 List of relevant H phrases

Harmful if swallowed. H302 H315 Causes skin irritation H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

16.1.2 List of relevant P phrases

Avoid breathing dust/vapours.

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> Wash with water thoroughly after handling. P264W P280sh Wear protective gloves/eye protection.

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P301+312 P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P330

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 (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

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

TRGS 907, German engineering rules governing listing of substances and causes of sensitizations, updated November 2011

KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

Revisions/Updates

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

2017-11 Adaption of ECHA Registration dossier

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