

Safety Data Sheet

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

REF: 740143.10	DNA Set for NucleoBond RNA Soil Mini(10)	Page: 1/7
Printing date: 12.05.2021	Date of issue: 26.09.2018	

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

1.1 Product identifier

REF 740143.10
 Product name DNA Set for NucleoBond RNA Soil Mini(10)

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 6 mL E5
 1 x 13 mL EDNA
 1 x 13 mL RNase-free H₂O

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

Information not necessary.

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

2.1 Classification of the substance or mixture

6 mL E5

Signal word Do not need labelling as hazardous
 -

No hazard class

13 mL EDNA

Signal word Do not need labelling as hazardous
 -

No hazard class

13 mL RNase-free H₂O

Signal word Do not need labelling as hazardous
 -

No hazard class



Safety Data Sheet

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

REF: 740143.10

DNA Set for NucleoBond RNA Soil Mini(10)

Page: 2/7

Printing date: 12.05.2021

Date of issue: 26.09.2018

2.2 Label elements

6 mL E5

Do not need labelling as hazardous
Signal word: -

13 mL EDNA

Do not need labelling as hazardous
Signal word: -

13 mL RNase-free H₂O

Do not need labelling as hazardous
Signal word: -

2.3 Other hazards

Possible hazards from physicochemical properties

According to our current status of knowledge and experience we state, that this product does not contain any substances, which - in accordance with EC regulations 1272/2008/EC, 1907/2006/EC and German Regulations for Hazardous goods - have to be declared as dangerous goods, either because of their applied concentration or because of their total amount in anyone kit. An individual package has considerably less hazardous potential. ---

Information pertaining to particular risks to human and possible symptoms

Information pertaining to particular risks to the environment

Other hazards

SECTION 3: Composition/information on ingredients

3.1 Substances or 3.2 Mixtures

6 mL E5

Chemical: *inorganic salts, declaration not necessary*

CAS No.: -

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

Pseudonym: not hazardous

TSCA Inventory: all listed

KE No.: listed

Concentration: 1 - <3 %

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

13 mL EDNA

Chemical: *lithium chloride*

CAS No.: 7447-41-8

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

Formula: LiCl

TSCA Inventory: listed

REACH Reg. No.: 01- 2119560574-35-xxxx

EC No.: 231-212-3

RTECS: OJ5950000

KE No.: KE-22552

Concentration: 1 - <10 %

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

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.

Safety Data Sheet

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

REF: 740143.10

DNA Set for NucleoBond RNA Soil Mini(10)

Page: 3/7

Printing date: 12.05.2021

Date of issue: 26.09.2018

13 mL RNase-free H₂O

Chemical: *water*

CAS No.: 7732-18-5

Classification:

No criteria for classification or naming of chemical not required.

Formula:

H₂O

TSCA Inventory:

listed

REACH Reg. No.:

exempt, Annex IV

EC No.:

231-791-2

RTECS:

ZC0110000

KE No.:

KE-35400

Concentration:

90 - <100 %

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%.

SECTION 4: First aid measures

4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately.

4.1.1 After SKIN Contact

Not necessary.

4.1.2 After EYE Contact

Not necessary.

4.1.3 After INHALATION of vapours

Not necessary. ---

4.1.4 After ORAL Intake

Not necessary. ---

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate medical attention and special treatment needed

No additionally recommendations. ---

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

None.

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. Not necessary.

6.2 Environmental precautions

not necessary

6.3 Methods and material for containment and cleaning up

Clean working area with water. Flush used water into drains.

Safety Data Sheet

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

REF: 740143.10

DNA Set for NucleoBond RNA Soil Mini(10)

Page: 4/7

Printing date: 12.05.2021

Date of issue: 26.09.2018

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): 12

Water hazard class (DE): 1

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

6 mL E5

Chemical: *inorganic salts, declaration not necessary*

CAS No.: -

13 mL EDNA

Chemical: *lithium chloride*

CAS No.: 7447-41-8

DNEL: 73.2_{derm} mg/kg bw/d; 10_{inh} mg/m³

DNEL = Derived No-Effect Level (for workers)

PNEC_(fresh water): 1.2 mg/L

PNEC = Predicted No Effect Concentration

TRGS 900 (DE): 0.2 E mg/m³

E/e respirable

Short-term exposure factor: 1 (I), Y

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: [als Li][MAK] 0,2 e/[STEL] 0,2 e mg/m³

Chemical: *chemicals/mixture < 1%*

CAS No.: -

13 mL RNase-free H₂O

Chemical: *water*

CAS No.: 7732-18-5

8.2 Exposure controls

Not necessary. Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities.

8.2.1 Respiratory protection

Not necessary.

8.2.2 Hand protection

Not necessary.

8.2.3 Eye protection

Not necessary.

8.2.4 Skin protection

Not necessary.

8.2.5 Personal hygiene

Information not necessary.

Safety Data Sheet

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

REF: 740143.10

DNA Set for NucleoBond RNA Soil Mini(10)

Page: 5/7

Printing date: 12.05.2021

Date of issue: 26.09.2018

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

6 mL E5

Appearance: liquid	Colour: colourless	Odor: odorless
pH:	7.5-8	
Specific gravity:	1.01 g/cm ³	

13 mL EDNA

Appearance: liquid	Colour: colourless	Odor: odorless
pH:	7.5-8.5	
Specific gravity:	1.02 g/cm ³	

13 mL RNase-free H₂O

Appearance: liquid	Colour: colourless	Odor: odorless
pH:	6-8	
Specific gravity:	1.0 g/cm ³	

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

None

10.2 Chemical stability

No known instability.

10.3 Possibility of hazardous reactions

None.

10.4 Conditions to avoid

Not known. ---

10.5 Incompatible materials

Not known.

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.

6 mL E5

Chemical:	<i>inorganic salts, declaration not necessary</i>	CAS No.: -
TSCA Inventory:	all listed	
Korea Exist.Chem.Inventory:	listed	

13 mL EDNA

Chemical:	<i>lithium chloride</i>	CAS No.: 7447-41-8
TSCA Inventory:	listed	
Korea Exist.Chem.Inventory:	KE-22552	
LD50 _{orl rat} :	526 mg/kg	

Safety Data Sheet

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

REF: 740143.10 DNA Set for NucleoBond RNA Soil Mini(10) Page: 6/7
 Printing date: 12.05.2021 Date of issue: 26.09.2018

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

13 mL RNase-free H₂O

Chemical: *water* CAS No.: 7732-18-5
 TSCA Inventory: listed
 Korea Exist.Chem.Inventory: KE-35400

SECTION 12: Ecological information

12.1 Toxicity

Following information is valid for pure substances.

6 mL E5

Chemical: *inorganic salts, declaration not necessary* CAS No.: -
 Water hazard class (DE): 1
 Storage class (VCI): 12-13

13 mL EDNA

Chemical: *lithium chloride* CAS No.: 7447-41-8
 PNEC(fresh water) : 1.2 mg/L
 PNEC = Predicted No Effect Concentration
 LC50_{fish/96h} : 158 mg/L
 EC50_{daphnia/48h} : 249 mg/L
 EC50_{pseudokirchneriella subcapitata/72h} : IC50/72h: 400 mg/L
 Water hazard class (DE): 1
 Storage class (VCI): 12-13

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

13 mL RNase-free H₂O

Chemical: *water* CAS No.: 7732-18-5

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

Not necessary.

13.1 Waste treatment methods

GENERAL: Empty solids into municipal waste, empty liquids diluted into drains. Normally it is possible to empty small amounts (diluted!) into drains.

Safety Data Sheet

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

REF: 740143.10

DNA Set for NucleoBond RNA Soil Mini(10)

Page: 7/7

Printing date: 12.05.2021

Date of issue: 26.09.2018

SECTION 14: Transport information

14.1 - 14.4 Not necessary

14.5 Environmental hazards

none

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
 MN Leaflet/User manual, also see www.mn-net.com
 Look for your country-specific regulations.

15.2 Chemical safety assessment

SECTION 16: Other information

16.1 List of H and P phrases

16.1.1 List of relevant H phrases

16.1.2 List of relevant P phrases

16.2 Training advice

Regular safety training.

16.3 Recommended restriction on use

None

16.4 Further information

MACHEREY-NAGEL GmbH & Co. KG provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.
 MACHEREY-NAGEL GmbH & Co. KG makes NO REPRESENTATIONS or WARRANTIES, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly MACHEREY-NAGEL GmbH & Co. KG will not be responsible for damages resulting from use of or reliance upon this information. See terms and conditions at the end of our price lists for additional information.

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