

Safety Data Sheet

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

NucleoBond Xtra EF Buffer Set I 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 740427

Product name NucleoBond Xtra EF Buffer Set I

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 150 mL LYS-EF 1 x 150 mL NEU-EF 1 x 150 mL RES-EF

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

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

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

US:

SECTION 2: Hazard identification

Classification of the complete product 2.0





GHS07

GHS08

Signal word **DANGER**

Hazard identification Hazard classes/categories

H315 Skin Irrit. 2 H319 Eye Irrit. 2 Resp. Sens. 1 H334

2.1 Classification of the substance or mixture

150 mL LYS-EF



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Signal word WARNING

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

150 mL NEU-EF

Do not need labelling as hazardous

Signal word

No hazard class

150 mL RES-EF

Do not need labelling as hazardous

Signal word

No hazard class

0.6-100 mg RNase A (Iyo)



GHS0

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.

150 mL LYS-EF



GHS07

Signal word: WARNING

H315, H319

Causes skin irritation. Causes serious eye irritation.

P280sh

Wear protective gloves/eye protection.

150 mL NEU-EF

Do not need labelling as hazardous Signal word: -

150 mL RES-EF

Do not need labelling as hazardous

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ISO 9001 CERTIFIED MACHEREY-NAGEL GmbH & Co. KG \cdot Neumann-Neander-Str. 6–8 \cdot 52355 Düren \cdot Germany

DE/international: CH: FR:

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Signal word: -

0.6-100 mg RNase A (Iyo)



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 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

150 mL LYS-EF

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

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

TSCA Inventory: listed

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

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

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

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

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

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

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

EC No.: 205-788-1

RTECS: WT1050000 MFCD: 00036175

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

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

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> Chemical: CAS No .: indicator dve(s)

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.

150 mL NEU-EF

Chemical: acetate buffer solution CAS No .: -

Classification: No criteria for classification or naming of chemical not required. CH $_3\,COOH/K/Na$ $^{\bullet}H_2\,O$

Formula: TSCA Inventory: all listed KE No.:

25 - <45 % acc. CLP (GHS): The criteria for classification are not fulfilled.

150 mL RES-EF

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

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.

0.6-100 mg RNase A (Iyo)

Concentration:

Chemical: CAS No. 9001-99-4

Classification: H334, Resp. Sens. 1

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

Pseudonym: Nuclease, ribo-

TSCA Inventory: listed 232-646-6 FC No : RF0760000 RTECS: KE No.: KE-30341 90 - <100 % Concentration:

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

Remove contaminated clothing immediately. Rinse the affected skin or mucous membrane thoroughly for min. 15 minutes under running water. Avoid neutralisation. Then apply a loose bandage.

After EYE Contact 4.1.2

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

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 lots of water with activated charcoal supplement should be drunk after it has been ingested. Do not induce vomiting under any circumstances. Do not make any efforts to neutralise it. Contact medical advice for possible consequences. ---

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. ---

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4.3 Indication of any immediate medical attention and special treatment needed

After SKIN CONTACT rinse with water for a long time. Apply glucocorticosteroides following inflammatory reactions. 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. Inform patient respectively further measures and the possibility of long-term

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.

For great amount - if necessary - protective breathing apparatus which is independent of the ambient air (isolated equipment), and sealed protective clothing is necessary in the event of a large-scale formation of toxic substances.

5.4 Additional information

Danger for environment only in the event of a large-scale leakage or formation of hazardous substances. ---

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable protective gloves (see 8.2.2). Wear eye 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

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

6.4 Reference to other sections

see information in section 5.4 ---

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. Storage class (VCI): 12

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

150 mL LYS-EF

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

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

150 mL NEU-EF

acetate buffer solution CAS No .: -Chemical:

150 ml RFS-FF

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

0.6-100 mg RNase A (Iyo)

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

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 Hand protection

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

8.2.3 Eye protection

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

Skin protection 8.2.4

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

150 mL LYS-EF

Appearance: liquid Colour: blue Odor: odorless

Specific gravity: 1.008 g/cm³

150 mL NEU-EF

Appearance: liquid Colour: colourless Odor: acetic

4-5 pH: 63°C Flash point: Specific gravity: 1.19 g/cm³

150 mL RES-EF

Appearance: liquid Colour: colourless Odor: odorless

7.5 - 8.5Specific gravity: 1.01 g/cm³

0.6-100 mg RNase A (Iyo)

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

Solubility in water: 0-100 %

9.2 Other information

Relevant Properties of Substance Group

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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

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.

150 mL LYS-EF

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/kgLD50_{drm rbt}: not applicable 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

indicator dye(s) Chemical: CAS No : -

all listed, <1% TSCA Inventory:

150 mL NEU-EF

Chemical: acetate buffer solution CAS No .: -

TSCA Inventory: all listed Korea Exist.Chem.Inventory: listed

150 mL RES-EF

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

TSCA Inventory: all listed, <1% Korea Exist.Chem.Inventory: listed

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0.6-100 mg RNase A (Iyo)

Chemical: RNase 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 LD50_{intraperitonaeal 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 Toxicity

Following information is valid for pure substances.

150 mL LYS-EF

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

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

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

Storage class (VCI): 12-13

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): Storage class (VCI): 12-13

CAS No : -Chemical: indicator dye(s)

Storage class (VCI): 12-13

150 mL NEU-EF

Chemical: acetate buffer solution CAS No .: -

Storage class (VCI):

150 mL RES-EF

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

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

0.6-100 mg RNase A (Iyo)

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

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

12.2 Persistence and degradability

not necessary

12.3 Bioaccumulative potential

not necessary

12.4 Mobility in soil

not necessary

12.5 Results of PBT and vPvB assessment

no data available

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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

Causes skin irritation. Causes serious eye irritation. H319

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

16.1.2 List of relevant P phrases

Avoid breathing dust/vapours. P261sh P280sh Wear protective gloves/eye protection.

P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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/EÉC 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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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

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

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