# MACHEREY-NAGEI



# Safety Data Sheet

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

REF: 740437	NucleoBond Xtra BAC 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 Product name 740437 NucleoBond Xtra BAC 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 1000 mL LYS-BAC
- 1 x 1000 mL NEU-BAC
- 1 x 1000 mL RES-BAC
- 1 x 0.6-100 mg RNase A (lyo)

### 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 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**

Signal word

### 2.0 Classification of the complete product



Hazard identification	Hazard classes/categories
H315	Skin Irrit. 2
H319	Eye Irrit. 2
H334	Resp. Sens. 1

### 2.1 Classification of the substance or mixture

### 1000 mL LYS-BAC





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+41 62 388 55 00 +41 62 388 55 05 E-mail: sales-ch@mn-net.com FR: Tel.: +33 388 68 22 68 Fax: +33 388 51 76 88 E-mail: sales-fr@mn-net.com

US: Tel.: +1 484 821 0984 +1 484 821 1272 Fax: E-mail: sales-us@mn-net.com



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Signal word	WARNING	
Hazard identification	Hazard classes/categories	
H315 H319	Skin Irrit. 2 Eye Irrit. 2	
1000 mL NEU-BAC		
Signal word	Do not need labelling as hazardous -	
No hazard class		
1000 mL RES-BAC		
Signal word	Do not need labelling as hazardous -	
No hazard class		
0.6-100 mg RNase A (Iyo)		
	GHS08	
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.

## 1000 mL LYS-BAC



Signal word: WARNING

H315, H319 Causes skin irritation. Causes serious eye irritation.

P280sh Wear protective gloves/eye protection.

### 1000 mL NEU-BAC

Do not need labelling as hazardous Signal word: -

### 1000 mL RES-BAC

Do not need labelling as hazardous

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+33 388 68 22 68 +33 388 51 76 88 E-mail: sales-fr@mn-net.com

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# CHEREY-NAGEL



# Safety Data Sheet

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Signal word: -

### 0.6-100 mg RNase A (Iyo)



Signal word: DANGER

H334

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

### 1000 mL LYS-BAC

1111	LIS-DAC			
	Chemical: so	dium hydroxide solution (diluted < 2 %)		CAS No.: 1310-73-2d
	Classification:	H314, Skin Corr. 1B		
	Formula:	NaOH•H <sub>2</sub> O		
	Pseudonym:	diluted soda lye		
	TSCA Inventory:			
	REACH Reg. No	o.: 01-2119457892-27-xxxx		
	EC No.:	215-185-5	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		
	Chemical: do	odecyl sulfate, sodium salt		CAS No.: 151-21-3
	Classification:		v 1 oral 4315 Skin Ir	rit. 2, H318, Eye Dam. 1, H332, Acute
		5, STOT SE 3, H412, Aquatic Chronic 3	A. 4 01al, 11515, OKIT II	ni. 2, 11310, Lye Dani. 1, 11332, Addie
	Formula:	C <sub>12</sub> H <sub>25</sub> NaO <sub>4</sub> S		
	Pseudonym:	12 20 1	onododecul ester sodi	ium salt
	TSCA Inventory:		ionododecyi ester sodi	lum sait
	REACH Reg. No			
	EC No.:	205-788-1		
	RTECS:	WT1050000	MFCD:	00036175
	KE No.:	KE-21884		00000110
	Concentration:			
	acc. CLP (GHS):			



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Printing	g date: 12.05.2021	Date of issue: 11.12.2020	
	Chamical: india		CAS No.: -
	Chemical: <i>indic</i> Classification:	ator dye(s) No criteria for classification or naming of chemical not required.	CAS NO
	TSCA Inventory:	all listed. <1%	
	Concentration:	< 0.10 %	
	acc. CLP (GHS):	The criteria for classification are not fulfilled.	
		The offeria for classification are not fulfilled.	
	1000 mL NEU-BAC		
		ate buffer solution	CAS No.: -
	Classification:	No criteria for classification or naming of chemical not required.	
	Formula:	CH <sub>3</sub> COOH/K/Na•H <sub>2</sub> O	
	TSCA Inventory:	all listed	
	KE No.:	listed	
	Concentration:	25 - <45 %	
	acc. CLP (GHS):	The criteria for classification are not fulfilled.	
	1000 mL RES-BAC		
		nicals/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.	
	0.6-100 mg RNase A (Iyo)		
	Chemical: RNas	se	CAS No.: 9001-99-4
	Classification:	H334, Resp. Sens. 1	
	Formula:	Enzyme Comm. No. 3.1.27.5, origin: bovine pancreas (contro	lled population)
	Pseudonym:	Nuclease, ribo-	
	TSCA Inventory:	listed	
	EC No.:	232-646-6	
	RTECS:	RF0760000	
	KE No.:	KE-30341	
	Concentration:	90 - <100 %	
	acc. CLP (GHS):	H334, Resp. Sens. 1	
3.3	Remarks		
5.5		e added with water [CAS No. 7732-18-5] to 100%.	
	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	
SECT	ION 4: First aid measu	res	
4.1	Description of first aid m	025UP05	
	•		d provide resussitation if personery. If
		er zone to fresh air immediately. Ensure quiet, warmth, ar e. Take to a doctor, in a raised position if there are breathi	
	After SKIN Contact	-	
4.1.1	Remove contaminated clothi	ng immediately. Rinse the affected skin or mucous memb	rane thoroughly for min. 15 minutes under
1.1.1		sation. Then apply a loose bandage.	
4.1.1	running water. Avoid neutrail	4.1.2 After EYE Contact	
4.1.1 4.1.2	After EYE Contact		
	After EYE Contact After contact with the eyes ri	nse thoroughly under running water with the eyelid wide o	
	After EYE Contact After contact with the eyes ri bottle, eye douche or running	g water (protect intact eye). Before (if possible) apply eye	drops Proxymetacaine 0.5%, if the opening
	After EYE Contact After contact with the eyes ri bottle, eye douche or running		drops Proxymetacaine 0.5%, if the opening
	After EYE Contact After contact with the eyes ri bottle, eye douche or running the eyelid convulsion is pain	g water (protect intact eye). Before (if possible) apply eye ul. Further treatment to be carried out by an eye specialis	drops Proxymetacaine 0.5%, if the opening
.1.2	After EYE Contact After contact with the eyes ri bottle, eye douche or running the eyelid convulsion is pain After INHALATION of vapo Administer a Dexamethason	g water (protect intact eye). Before (if possible) apply eye ul. Further treatment to be carried out by an eye specialis	drops Proxymetacaine 0.5%, if the opening t. rovide resuscitation if necessary. In the even

### 4.1.4 After ORAL Intake

DE/international:

+49 24 21 969-0

+49 24 21 969-199

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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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CH: Tel.: +41 62 388 55 00

Fax: +41 62 388 55 05 E-mail: sales-ch@mn-net.com FR: Tel.: +33 388 68 22 68 Fax: +33 388 51 76 88 E-mail: sales-fr@mn-net.com

US: Tel.: +1 484 821 0984 Fax: +1 484 821 1272 E-mail: sales-us@mn-net.com



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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 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. 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 with plenty of water.
- 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, inclu	uding any incompatibilities
	The original product package of MACHERE	Y-NAGEL allows a safe storage.
	Storage class (VCI):	12
	Water hazard class (DE):	2
7.2.1	Requirements for stock rooms and c Keep original product packages tightly	

7.3 Specific end use(s)

Product for analytical use.

## SECTION 8: Exposure controls/personal protection

### Control parameters

1000 mL LY	S-BAC	
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, [S	TEL] Short-term exposure limit related to a 15-minute period
OSHA:	not listed	

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8.1

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	Chemical:	indicator dye(s)	CAS No.: -
	<b>1000 mL N</b> Chemical:	EU-BAC acetate buffer solution	CAS No.: -
	<b>1000 mL R</b> Chemical:	E <b>S-BAC</b> chemicals/mixture < 1%	CAS No.: -
	<b>0.6-100 mg</b> Chemical:	RNase A (Iyo) RNase	CAS No.: 9001-99-4
8.2	Exposure co	ontrols I of cleanliness must be maintained at the workpl	ace.
8.2.1	Respirator	y protection	ection 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	<b>Eye protec</b> Yes, safety	tion glasses according EN 166 with integrated side sł	ields or wrap-around protection.
8.2.4	Skin proteo Recommen	<b>tion</b> ded to avoid contamination with these hazards.	
8.2.5	with the skir	king, smoking, taking snuff and storage of food in	work areas and at outdoor workplaces is prohibited. Avoid contact the substance has been spilled, and soak it in water. Wash hands bre eating, and then apply protective skin cream.
SECT	TION 9: Phys	ical and chemical properties	
9.1	Information	on basic physical and chemical prop	erties

### pily

<b>1000 mL LYS-BAC</b> Appearance: liquid pH: Specific gravity:	Colour: blue 13 1.008 g/cm³	Odor: odorless
<b>1000 mL NEU-BAC</b> Appearance: liquid pH: Specific gravity:	Colour: colourless 5- 5.5 1.14 g/mL	Odor: acetic
<b>1000 mL RES-BAC</b> Appearance: liquid pH: Specific gravity:	Colour: colourless 7.5-8.5 1.00 g/cm³	Odor: odorless
<b>0.6-100 mg RNase A (Iyo)</b> Appearance: solid (Iyoph.) Solubility in water:	Colour: colourless 0-100 %	Odor: odorless

### 9.2 Other information

**Relevant Properties of Substance Group** 

# **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

no further data available.

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10.2	Chemical stability No known instability.		
10.3	<b>Possibility of hazar</b> No further data available.	dous reactions	
10.4	Conditions to avoic Not necessary		
10.5	Incompatible mater Avoid contact with strong		
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.		
	ION 11: Toxicolog		
11.1	-	valid for pure substances.	
	1000 mL LYS-BAC		
	TSCA Inventory: Exposure Routes: Target Organs: Symptoms: Japan CSCL/PRTR: Japan ISHL: Korea Exist.Chem.Inv LD50 <sub>orl rat</sub> : LD50 <sub>orl mus</sub> :	sodium hydroxide solution listed California Proposition 65 inhalation, ingestion, skin and/or eye contact Eyes, skin, respiratory system - not listed, Japan PDSCL: not listed listed ≥1,0%/≥1,0% SDS required entory: KE-31487 [< 1%] > 50 g/kg not applicable [< 1%] > 4 g/kg	5 List: not listed
	Chemical: TSCA Inventory: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.Inv LD50 <sub>orl rat</sub> : LC50 <sub>inh rat</sub> : LD50 <sub>drm rbt</sub> :	dodecyl sulfate, sodium salt listed California Proposition 65 not listed Canada CEPA 1 PRTR - Class I Designated Chemical Substan- not listed entory: KE-21884 1288 mg/kg 3900 <sub>1h</sub> mg/m <sup>3</sup> 10 g/kg	999: DSL yes
	Chemical: TSCA Inventory:	indicator dye(s) all listed, <1%	CAS No.: -
	1000 mL NEU-BAC		
	Chemical: TSCA Inventory: Korea Exist.Chem.In	acetate buffer solution all listed entory: listed	CAS No.: -
	1000 mL RES-BAC		
	Chemical: TSCA Inventory:	chemicals/mixture < 1% all listed, <1%	CAS No.: -

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		ed 341 g/kg nts of health when ingested in small quantities. ation by skin contact, also in repeated contact o	CAS No.: 9001-99-4 f small amounts. May cause allergy or asthma
SECT 12.1	TON 12: Ecological informa Toxicity	tion	
12.1	Following information is valid for pure	substances.	
	1000 mL LYS-BAC	rdroxide solution 35-189 mg/L 45.4 mg/L >100 mg/L nwg WGK No.: 0142 12-13	CAS No.: 1310-73-2d
	Chemical: dodecyl si LC50 <sub>daphnia</sub> magna/48h : LC50 <sub>fish/96h</sub> : Water hazard class (DE): Dispersion coefficient <sub>(octanol-wate</sub> Storage class (VCI):	ulfate, sodium salt 6.3 mg/L 1.31-22.5 mg/L 2 er): 1.6 12-13	CAS No.: 151-21-3
	Chemical: indicator of Storage class (VCI):	lye(s) 12-13	CAS No.: -
	<b>1000 mL NEU-BAC</b> Chemical: acetate bu Storage class (VCI):	uffer solution 12	CAS No.: -
	<b>1000 mL RES-BAC</b> Chemical: chemicals Water hazard class (DE): Storage class (VCI):	/mixture < 1% 1 12-13	CAS No.: -
	<b>0.6-100 mg RNase A (Iyo)</b> Chemical: <i>RNase</i> Water hazard class (DE): Storage class (VCI):	1 13	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 asse no data available	ssment	
12.6	Other adverse effects		



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### 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

- **Environmental hazards** 14.5 none
- Special precautions for user 14.6

not necessary

Transport in bulk according to Annex II of MARPOL and the IBC Code 14.7 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			
	H315 H319 H334	Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.		
16.1.2	<b>List of relevan</b> P261sh P280sh			

# 16

P261sh	Avoid breathing dust/vapours.
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/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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MACHEREY-NAGEL	MAC	HEREY-NAGEL GmbH & C	o. KG ·	Neumann-Neander-Str. 6–8	3 · 5235	5 Düren · Germany		
	DE/ir	nternational:	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
ISO 9001 CERTIFIED	Fax:	+49 24 21 969-199	Fax:	+41 62 388 55 05	Fax:	+33 388 51 76 88	Fax:	+1 484 821 1272
Version: M V 4.1	1 <sub>2.0</sub> E-ma	il: info@mn-net.com	E-ma	il: sales-ch@mn-net.com	E-mai	l: sales-fr@mn-net.com	E-ma	il: sales-us@mn-net.com



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

RFF	740437
	1 10 101

Printing date: 12.05.2021

NucleoBond Xtra BAC Buffer Set Date of issue: 11.12.2020

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### Sources of key data 16.5

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS Regulation 487/2013/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress Regulation 669/2018/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress

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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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MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany DE/international: CH: FR: Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 Version: M V 4.12.0 E-mail: info@mn-net.com E-mail: sales-ch@mn-net.com E-mail: sales-fr@mn-net.com

US: Tel.: +1 484 821 0984 Fax: +1 484 821 1272 E-mail: sales-us@mn-net.com