# MACHEREY-NAGEI



# Safety Data Sheet

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

REF: 740426.10	NucleoBond Xtra Maxi Plus EF (10)	Page: 1/23
Printing date: 12.05.2021	Date of issue: 17.02.2021	

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

#### 1.1 **Product identifier**

REF Product name 740426.10 NucleoBond Xtra Maxi Plus EF (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 180 mL ELU-EF 1 x 1000 mL ENDO-EF 1 x 400 mL EQU-EF 1 x 125 mL FIL-EF 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 (lyo) 1 x 30 mL TE-EF 1 x 500 mL WASH-EF 1 x 35 mL H<sub>2</sub> O-EF (for 70% ethanol) 1 x 30 mL H<sub>2</sub> O-EF

#### 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. 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

### **SECTION 2: Hazard identification**

#### 2.0 Classification of the complete product



Signal word

Hazard identification	Hazard classes/categories
H226	Flam. Liq. 3
H315	Skin Irrit. 2
H319	Eye Irrit. 2
H334	Resp. Sens. 1
H412	Aquatic Chronic 3

DANGER



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

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# **MACHEREY-NAGEL**



# **Safety Data Sheet**

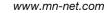
## according to Regulations 1907/2006/EC (REACh) and 2015/830/EU

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#### 2.1 Classification of the substance or mixture

180 mL ELU-EF

		GHS02 GHS07
	Signal word	WARNING
	Hazard identification	Hazard classes/categories
	H226 H319	Flam. Liq. 3 Eye Irrit. 2
100	0 mL ENDO-EF	
		GHS02
	Signal word	WARNING
	Hazard identification	Hazard classes/categories
	H226 H412	Flam. Liq. 3 Aquatic Chronic 3
400	mL EQU-EF	
400		
		GHS02
	Signal word	WARNING
	Hazard identification	Hazard classes/categories
	H226 H412	Flam. Liq. 3 Aquatic Chronic 3
125	mL FIL-EF	
120		Do not need labelling as hazardous
	Signal word	-
	No hazard class	
150	mL LYS-EF	
		•
		GHS07
	Signal word	WARNING
	Hazard identification	Hazard classes/categories
	H315 H319	Skin Irrit. 2 Eye Irrit. 2
		, -



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REF: 740426.10 Printing date: 12.05.2021	NucleoBond Xtra Maxi Plus EF (10) Date of issue: 17.02.2021	Page: 3/2
150 mL NEU-EF		
	Do not need labelling as hazardous	
Signal word	-	
No hazard class		
150 mL RES-EF		
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	
30 mL TE-EF		
Signal word	Do not need labelling as hazardous -	
No hazard class		
500 mL WASH-EF		
	GHS02	
Signal word	WARNING	
Hazard identification	Hazard classes/categories	
H226	Flam. Liq. 3	
35 mL H $_2$ O-EF (for 70% ethan	nol)	
Signal word	Do not need labelling as hazardous	
Signal word No hazard class	-	
<b>30 mL H</b> <sub>2</sub> <b>O-EF</b>		
Signal word	Do not need labelling as hazardous -	

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#### 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 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). This labelling exemption is NOT valid for sensibilizing substances.

### 180 mL ELU-EF



Signal word: WARNING

H226, H319 Flammable liquid and vapour. Causes serious eye irritation.

P210, P280sh Keep away from heat/sparks/open flames/hot surfaces. No smoking. Wear protective gloves/eye protection.

### 1000 mL ENDO-EF



Signal word: WARNING

H226, H412 Flammable liquid and vapour. Harmful to aquatic life with long lasting effects.

P210, P273 Keep away from heat/sparks/open flames/hot surfaces. No smoking. Avoid release to the environment.

### 400 mL EQU-EF



Signal word: WARNING

H226, H412 Flammable liquid and vapour. Harmful to aquatic life with long lasting effects.

P210 P273 Keep away from heat/sparks/open flames/hot surfaces. No smoking. Avoid release to the environment.

### 125 mL FIL-EF

Do not need labelling as hazardous Signal word: -

### 150 mL LYS-EF



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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 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.

### 30 mL TE-EF

Do not need labelling as hazardous Signal word: -

### 500 mL WASH-EF



Signal word: WARNING

H226 Flammable liquid and vapour.

P210

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

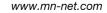
### 35 mL H<sub>2</sub> O-EF (for 70% ethanol)

Do not need labelling as hazardous Signal word: -

### 30 mL H<sub>2</sub> O-EF

Do not need labelling as hazardous Signal word: -

### 2.3 Other hazards



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### 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. Vapour forms explosive mixtures with air. --

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

Harmful to aquatic life with long lasting effects. Avoid contact of substance/mixture to environment. PBT: not applicable vPvB: not applicable

Other hazards

### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances or 3.2 Mixtures

#### 180 mL ELU-EF Chemical: 2-propanol CAS No.: 67-63-0 H225, Flam. Liq. 2, H319, Eye Irrit. 2, H336, STOT SE 3 Classification: Formula: C<sub>3</sub>H<sub>8</sub>O Pseudonym: isopropanol, IPA, propan-2-ol TSCA Inventory: listed 01-2119457558-25-XXXX REACH Reg. No .: EC No .: 200-661-7 Indice No.: 603-117-00-0 RTECS: NT8050000 MFCD: 00011674 KE No .: KE-29363 Concentration: 10 - <15 % acc. CLP (GHS): H226, Flam. Liq. 3, H319, Eye Irrit. 2 Chemical: potassium chloride CAS No.: 7447-40-7 Classification: No criteria for classification or naming of chemical not required. Formula: KCI TSCA Inventory: listed REACH Reg. No.: 01-2119539416-36-xxxx EC No .: 231-211-8 RTECS: TS8050000 MFCD: 00011360 KE No .: KE-29086 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 0.1 - <1 % Concentration: acc. CLP (GHS): The criteria for classification are not fulfilled. 1000 mL ENDO-EF Chemical: ethanol (diluted < 20 %) CAS No.: 64-17-5d (denatured with 1%IPA/1%MEK, acc.2016/1867/EU) Classification: H225, Flam. Liq. 2 Formula: C2 H6 O; C2 H5 OH Pseudonvm: ethyl alcohol, methylated spirit TSCA Inventory: listed REACH Reg. No.: 01-2119457610-43-xxxx 200-578-6 603-002-00-5 EC No .: Indice No.: RTECS: KQ6300000 MFCD: 00003568 KE No.: KE-13217 Concentration: 5 - <20 % acc. CLP (GHS): H226, Flam. Liq. 3



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REF: 740426.10			tra Maxi Plus EF (10)		Page: 7/2
Printing date: 12.05.20	)21	Date of issue:	17.02.2021		
	Chemical: potas	sium chloride		CAS No.: 7447-40-7	
	Classification:	No criteria for classification or nami	ng of chemical not required.	CAS No.: 7447-40-7	
	Formula:	KCI	ng or onormour not roquirour		
	TSCA Inventory:	listed			
	REACH Reg. No.:	01-2119539416-36-xxxx			
	EC No.: RTECS:	231-211-8	MEOD	00011200	
	KE No.:	TS8050000 KE-29086	MFCD:	00011360	
	Concentration:	1 - <10 %			
	acc. CLP (GHS):	The criteria for classification are not	t fulfilled.		
	Chemical: Tritor	® X-114		CAS No.: 9036-19-5	
	Classification:		15 Skin Irrit 2 H318 Ev	e Dam. 1, H410, Aquatic Chronic	: 1
	Formula:	C <sub>30</sub> H <sub>54</sub> O <sub>9</sub>	10, 0km mil. 2, 11010, Ly		, i
	Pseudonym:		pha[(1,1,3,3-tetramethyl	butyl)phenyl]omegahydroxy-	
	TSCA Inventory:	listed		,,, ,, ,, ,, ,, ,,	
	SVHC listed:	listed			
	EC No.:	232-658-1			
	RTECS:	RI0720000			
	KE No.: Concentration:	KE-33567 0.25 - <2.5 %			
	acc. CLP (GHS):	H412, Aquatic Chronic 3			
				0101	
	Chemical: chem Classification:	icals/mixture < 1%	and the second	CAS No.: -	
	TSCA Inventory:	No criteria for classification or namin all listed, <1%	ng of chemical not required.		
	KE No.:	listed			
	Concentration:	0.1 - <1 %			
	acc. CLP (GHS):	The criteria for classification are not	t fulfilled.		
400 mL	. EQU-EF Chemical: ethan	<i>ol</i> (diluted < 20 %)		CAS No.: 64-17-5d	
		atured with 1%IPA/1%MEK, ac	c 2016/1867/FU)	CAS No.: 04-17-50	
	Classification:	H225, Flam. Liq. 2	0.2010/1001/20)		
	Formula:	C <sub>2</sub> H <sub>6</sub> O; C <sub>2</sub> H <sub>5</sub> OH			
	Pseudonym:	ethyl alcohol, methylated spi	irit		
	TSCA Inventory:	listed			
	REACH Reg. No.:	01-2119457610-43-xxxx	Indian Na i	603 003 00 F	
	EC No.: RTECS:	200-578-6 KQ6300000	Indice No.: MFCD:	603-002-00-5 00003568	
	KE No.:	KE-13217	WIT OD.	0000000	
	Concentration:	5 - <20 %			
	acc. CLP (GHS):	H226, Flam. Liq. 3			
	Chemical: potas	sium chloride		CAS No.: 7447-40-7	
	Classification:	No criteria for classification or nami	ng of chemical not required	0.0 1.0 141-40-1	
	Formula:	KCI	ng of offerfilear flot required.		
	TSCA Inventory:	listed			
	REACH Reg. No.:	01-2119539416-36-xxxx			
	EC No.:	231-211-8		00011000	
	RTECS:	TS8050000	MFCD:	00011360	
	KE No.: Concentration:	KE-29086 1 - <10 %			
	acc. CLP (GHS):	The criteria for classification are not	t fulfilled.		
	Chamical Triter			CAS No : 0000 40 5	
	Chemical: Tritor Classification:	® X-114 H302. Acute Tox. 4 oral. H3	15. Skin Irrit. 2 H318 Ev	CAS No.: 9036-19-5 e Dam. 1, H410, Aquatic Chronic	: 1
	Formula:	C <sub>30</sub> H <sub>54</sub> O <sub>9</sub>	,	,	
	Pseudonym:		pha[(1,1,3,3-tetramethyl	butyl)phenyl]omegahydroxy-	
	TSCA Inventory:	listed			
	SVHC listed:	listed			
	EC No.:	232-658-1			
	DTEOO				
	RTECS:	RI0720000			
	KE No.:	KE-33567			



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EF: 740426.10			ra Maxi Plus EF (10)	Page	: 8/2;
inting date: 12.05.20	J21	Date of issue: 1	7.02.2021		
	Chemical: chemi	nicals/mixture < 1%		CAS No.: -	
	Classification:	No criteria for classification or naming	an of abomical pat required	CA3 NU	
	TSCA Inventory:	all listed, <1%	g of chemical not required.		
	KE No.:	listed			
	Concentration:	0.1 - <1 %			
	acc. CLP (GHS):	The criteria for classification are not f	fulfillad		
	400. OEI (0).		umieu.		
125 ml	L FIL-EF				
	•	sium chloride		CAS No.: 7447-40-7	
	Classification:	No criteria for classification or naming	ig of chemical not required.		
	Formula:	KCI	-		
	TSCA Inventory:	listed			
	REACH Reg. No.:	01-2119539416-36-xxxx			
	EC No.:	231-211-8	MEOD.		
	RTECS:	TS8050000	MFCD:	00011360	
	KE No.:	KE-29086			
	Concentration:	1 - <10 %			
	acc. CLP (GHS):	The criteria for classification are not f	fulfilled.		
		icals/mixture < 1%		CAS No.: -	
	Classification:	No criteria for classification or naming	ig of chemical not required.		
	TSCA Inventory:	all listed, <1%	2		
	KE No.:	listed			
	Concentration:	0.1 - <1 %			
	acc. CLP (GHS):	The criteria for classification are not f	fulfilled.		
150 ml	L LYS-EF				
100 112		m hydroxide solution (diluted < 2	2 0%)	CAS No.: 1310-73-2d	
	Classification:	H314, Skin Corr. 1B	2 %)	CAS NU. 1310-73-24	
	Formula:	NaOH•H <sub>2</sub> O			
	Pseudonym:	diluted soda lye			
	TSCA Inventory:	listed			
	REACH Reg. No.:	01-2119457892-27-xxxx			
	EC No.:	215-185-5	Indice No.:	011-002-00-6	
	RTECS:	WB4900000		011-002-00-0	
	KE No.:	KE-31487			
	Concentration:	0.5 - <1 %			
	acc. CLP (GHS):	H315, Skin Irrit. 2, H319, Eye	e Irrit. 2		
	Chemical: dodeo	cyl sulfate, sodium salt		CAS No.: 151-21-3	
	Classification:		oute Tox 4 oral H315, Ski	in Irrit. 2, H318, Eye Dam. 1, H332, Acute	e
		STOT SE 3, H412, Aquatic Chror		11 Int. 2, 1010, 2,0 Bank 1, 1002, 112	2
	Formula:	$C_{12}$ H <sub>25</sub> NaO <sub>4</sub> S			
	Pseudonym:	sodium lauryl sulfate, sulfuric	secid monododecyl ester s	eodium salt	
	TSCA Inventory:	listed		Journ San	
	REACH Reg. No.:	01-2119489461-32-xxxx			
	EC No.:	205-788-1			
	RTECS:	WT1050000	MFCD:	00036175	
	KE No.:	KE-21884		00000110	
	Concentration:	0.1 - <1 %			
	acc. CLP (GHS):	The criteria for classification are not f	fulfilled.		
	Chemical: indica	ator dye(s)		CAS No.: -	
	Classification:		f chamical not required	CAS NO	
	TSCA Inventory:	No criteria for classification or naming all listed, <1%	g of chemical not required.		
	Concentration:	< 0.10 %			
	acc. CLP (GHS):	The criteria for classification are not f	fulfilled.		
150 mL	L NEU-EF Chemical: acetat	te buffer solution		CAS No.: -	
	Classification:		Color of the land to guide d	CA3 NU	
	Formula:	No criteria for classification or naming CH <sub>3</sub> COOH/K/Na•H <sub>2</sub> O	g of chemical not required.		
	TSCA Inventory:	all listed			
		listed			
	KE No.: Concentration:	11sted 25 - <45 %			
	acc. CLP (GHS):		£.1611ad		
		The criteria for classification are not f	ulfilled.		
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				www.r	nr

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	150 mL	RES-EF	ante e la factivita de 107		040 N	
			nicals/mixture < 1%		CAS No.: -	
		Classification:	No criteria for classification or naming of chemi	cal not required.		
		TSCA Inventory:	all listed, <1%			
		KE No.:				
		Concentration:	0.1 - <1 %			
		acc. CLP (GHS):	The criteria for classification are not fulfilled.			
	0.6-100	mg RNase A (lyo)	20		CAS No.: 9001-99-4	
		Chemical: RNa			CAS NO 9001-99-4	
		Classification:	H334, Resp. Sens. 1			
		Formula:	Enzyme Comm. No. 3.1.27.5,origin: bo	vine pancreas (controlled	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			
	00					
	30 mL 1		nicals/mixture < 1%		CAS No.: -	
		Classification:			CA3 NU	
			No criteria for classification or naming of chemi	cal not required.		
		TSCA Inventory:	all listed, <1%			
		KE No.:				
		Concentration:	0.1 - <1 %			
		acc. CLP (GHS):	The criteria for classification are not fulfilled.			
	500 ml	WASH-EF				
	000 1112		<i>nol</i> (diluted < 20 %)		CAS No.: 64-17-5d	
			natured with 1%IPA/1%MEK, acc.2016/18	367/EU)		
		Classification:	H225, Flam. Liq. 2	,		
		Formula:	C <sub>2</sub> H <sub>6</sub> O; C <sub>2</sub> H <sub>5</sub> OH			
		Pseudonym:	ethyl alcohol, methylated spirit			
		TSCA Inventory:	listed			
		REACH Reg. No.:	01-2119457610-43-xxxx			
		EC No.:		Indice No.:	603-002-00-5	
		RTECS:		MFCD:	00003568	
		KE No.:	KG0300000 KE-13217			
		Concentration:	5 - <20 %			
		acc. CLP (GHS):	5 - <20 % H226, Flam. Liq. 3			
			ssium chloride		CAS No.: 7447-40-7	
		Classification:	No criteria for classification or naming of chemi	cal not required.		
		Formula:	KCI			
		TSCA Inventory:	listed			
		REACH Reg. No.:	01-2119539416-36-xxxx			
		EC No.:	231-211-8			
		RTECS:		MFCD:	00011360	
		KE No.:	KE-29086	-		
		Concentration:	1 - <10 %			
		acc. CLP (GHS):	The criteria for classification are not fulfilled.			
		Chamical star	nicolo/mixture - 10/			
		Chemical: cher Classification:	nicals/mixture < 1%		CAS No.: -	
			No criteria for classification or naming of chemi	cal not required.		
		TSCA Inventory:	all listed, <1%			
		KE No.:	listed			
		Concentrations	0.1 -1.0/			
		Concentration: acc. CLP (GHS):	0.1 - <1 % The criteria for classification are not fulfilled.			

35 mL H<sub>2</sub> O-EF (for 70% ethanol)



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REF: 740426.10	NucleoBond Xtra Maxi Plus EF (10)		Page: 10/2
Printing date: 12.05.2021	Date of issue: 17.02.2021		
	No criteria for classification or naming of chemical not required. H <sub>2</sub> O listed exempt, Annex IV 231-791-2 ZC0110000 KE-35400 90 - <100 % The criteria for classification are not fulfilled.	CAS No.: 7732-18-5	
<b>30 mL H</b> <sub>2</sub> <b>O-EF</b>			
Chemical: water Classification: Formula: TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS):	No criteria for classification or naming of chemical not required. H <sub>2</sub> O listed exempt, Annex IV 231-791-2 ZC0110000 KE-35400 90 - <100 % The criteria for classification are not fulfilled.	CAS No.: 7732-18-5	

#### 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 immediately. Rinse the affected skin or mucous membrane thoroughly for min. 15 minutes under running water. (If possible) use soap. Avoid neutralisation. Then apply a loose bandage.

#### 4.1.2 After EYE Contact

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.

#### After INHALATION of vapours 4.1.3

After inhalation of foam or vapour 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 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. ---

#### 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 --



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### 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

WARNING: Flammable (GHS regulation). May form explosive vapour-air mixtures. Formation of hazardous and caustic vapour-air mixtures possible. -

#### 5.3 Advice for firefighters

No, for listed product. The substance/mixture is flammable. Product package burns like paper or plastic. Cool any undamaged containers in water, and remove from the danger zone if possible. Heating will lead to an increase in pressure, and a danger of bursting. Spray any vapours released with water. Retent fire water. Use only acid-resistant safety equipment. 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

Do not breathe vapours. Wear suitable protective gloves (see 8.2.2). Wear eye protection. Keep product away from sources of ignition -No smoking. 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, contains only small amounts of these substances

#### 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 hazardous chemicals. Clean any contaminated equipment and floors with plenty of water. Collect small amounts of leaked liquid and flush with water into drains.

#### 6.4 Reference to other sections

see information in section 5.4 ---

### 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 2 Water hazard class (DE):

Requirements for stock rooms and containers 7.2.1 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**

<b>180 mL ELU-EF</b> Chemical: 2-propanol DNEL: DNEL = Derived No-Effect	[inh] 500 mg/m³ Level (for workers)	CAS No.: 67-63-0
PNEC(fresh water) : PNEC = Predicted No Effect	140.9 mg/L ted Concentration	
TRGS 900 (DE):	200 ppm / 500 mg/m³ E/e respirable	
Short-term exposure factor: skin resorptive (H), respira SUVA(CH) MAK value:	2 (II), Y tory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely 200 ppm / 500 mg/m <sup>3</sup>	excluded / (Y) certainly excluded



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	TRGS 903 (I	DE):	[Aceton B/b, U/b] 25 mg B blood, U urine, a no limita	g/L titon, b end of exposition or shift	
		SH STEL:	[TWA] 400 ppm / 980 m 500 ppm / 1225 mg/m <sup>3</sup>	ng/m³ hours, [STEL] Short-term exposure limit related to a 15-minute perio	od
	OSHA:	Time-weighted aver	[TWA] 400 ppm / 980 m		
	Chemical:	potassium chl	oride	CAS No.: 7447-40	)-7
	Chemical:	chemicals/mix	ture < 1%	CAS No.: -	
	1000 mL EN	IDO-EF			
	Chemical: DNEL:	ethanol	[derm] 343 mg/kg; [inh]	CAS No.: 64-17-5	d
	DNEL	= Derived No-Effect	Level (for workers)	SSO IIIg/III	
	PNEC	rater) : = Predicted No Effe	0.96 mg/L		
	TRGS 900 (I	DE):	200 ppm / 380 mg/m <sup>3</sup>		
	,	,	E/e respirable		
		xposure factor: esorptive (H), respir		nsitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly	excluded
	SUVA(CH) N NIOSH:	/IAK value:	500 ppm / 960 mg/m <sup>3</sup> [TWA] 1000 ppm / 1900		
	OSHA:		1000 ppm / 1900 mg/m	3	
	Chemical:	potassium chl	oride	CAS No.: 7447-40	)-7
	Chemical:	Triton® X-114		CAS No.: 9036-19	)-5
	Chemical:	chemicals/mix	ture < 1%	CAS No.: -	
	400 mL EQU	J-EF			
	Chemical: DNEL:	ethanol	[dorm] 242 ma/ka: [inh]	CAS No.: 64-17-5	d
		= Derived No-Effect	[derm] 343 mg/kg; [inh] Level (for workers)	sou mg/m	
	PNEC PNEC	ater) : = Predicted No Effe	0.96 mg/L cted Concentration		
	TRGS 900 (I	DE):	200 ppm / 380 mg/m <sup>3</sup> E/e respirable		
		xposure factor: esorptive (H), respir		nsitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly	excluded
	SUVA(CH) N NIOSH: [TWA]		500 ppm / 960 mg/m <sup>3</sup> [TWA] 1000 ppm / 1900 age to a reference period of 8	) mg/m <sup>3</sup> hours, [STEL] Short-term exposure limit related to a 15-minute perio	od
	OSHA:	-	1000 ppm / 1900 mg/m		
	Chemical:	potassium chl	oride	CAS No.: 7447-40	)-7
	Chemical:	Triton® X-114		CAS No.: 9036-15	<del>)</del> -5
	Chemical:	chemicals/mix	ture < 1%	CAS No.: -	
	125 mL FIL-	<b>CC</b>			
	Chemical:	potassium chl	oride	CAS No.: 7447-40	)-7
	Chemical:	chemicals/mix	ture < 1%	CAS No.: -	
	150 mL LYS	FF			
	Chemical:	sodium hydro	kide solution	CAS No.: 1310-73	3-2d
	Chemical:	dodecyl sulfat	· · · · · · · · · · · · · · · · · · ·	CAS No.: 151-21-	.3
	NIOSH: [TWA] OSHA:	Time-weighted aver	not listed age to a reference period of 8 not listed	hours, [STEL] Short-term exposure limit related to a 15-minute period	bd
	JUNA.		HOL IIBLEU		



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REF: 740426				eoBond Xtra Maxi Plus EF (10)		Page: 13/23
Printing date	: 12.05.2021		Date	of issue: 17.02.2021		
	Chemical:	indicator dye	(s)		CAS No.: -	
	150 mL NE	U-FF				
	Chemical:	acetate buffe	er solution		CAS No.: -	
	150 mL RE		· · · · · · · · · · · · · · · · · · ·		040.11	
	Chemical:	chemicals/m	ixture < 1%		CAS No.: -	
	<b>0.6-100 mg</b> Chemical:	RNase A (lyo) RNase			CAS No.: 9001-99-4	
	30 mL TE-E	F				
	Chemical:	chemicals/m	ixture < 1%		CAS No.: -	
	500 mL WA					
	Chemical: DNEL:	ethanol	[derm] 343 mg/kg; [ir	ıh] 950 mg/m³	CAS No.: 64-17-5d	
			ct Level (for workers)			
			0.96 mg/L fected Concentration	2		
	TRGS 900 (	DE):	200 ppm / 380 mg/m E/e respirable	3		
	Short-term e	exposure factor resorptive (H), resp	: 4 (II), Y biratory sensitizable (Sa), skir	sensitizable (Sh), teratogenic (Z) not secu	urely excluded / (Y) certainly excluded	
	SUVA(CH)	MAK value:	500 ppm / 960 mg/m			
	NIOSH: [TWA	] Time-weighted av	[TWA] 1000 ppm / 19 erage to a reference period o	900 mg/m <sup>3</sup> f 8 hours, [STEL] Short-term exposure limi	t related to a 15-minute period	
	OSHA:		1000 ppm / 1900 mg	/m³		
	Chemical:	potassium cl	nloride		CAS No.: 7447-40-7	
	Chemical:	chemicals/m	ixture < 1%		CAS No.: -	
	35 mL H <sub>2</sub> O	-EF (for 70% e	thanol)			
	Chemical:	water	,		CAS No.: 7732-18-5	
	30 mL H <sub>2</sub> O	-EF				
	Chemical:	water			CAS No.: 7732-18-5	
2 Ex	kposure co	ontrols				
Go	od ventilation	and extraction	system in the room, floo intained at the workplac	or resistant to chemicals with floor e.	drainage and washing facilities.	The highest
2.1		<pre>/ protection n access of the</pre>	se substances for exam	ple a protection filter, class A/AX.	No additional recommendations.	
2.2		according EN		30 min - level 2), consist of PVC, r ex gloves with code EN 374-3 leve		ex. from Anse
2.3	Eye protec	tion		ted side shields or wrap-around p		
2.4	Skin protec	tion	ntamination with these l			
2.5	Personal h			10241 4U.		
			aking snuff and storage	of food in work areas and at outd	oor workplaces is prohibited. Avo	oid contact

ISO 9001

rmany US:

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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.

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# **MACHEREY-NAGEI**



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	g date: 12.05.2021	Date of issue: 17.0	2.2021	
SEC	FION 9: Physical and chemi	ical properties		
).1	Information on basic physica	l and chemical propert	ties	
	<b>180 mL ELU-EF</b> Appearance: liquid pH: Flash point:	Colour: colourless 8.5-9.5 30 °C	Odor: alcoholic	
	Specific gravity:	1.04 g/cm <sup>3</sup>		
	1000 mL ENDO-EF			
	Appearance: liquid pH:	Colour: colourless 6-7	Odor: alcoholic	
	Flash point:	39 °C		
	Specific gravity:	1.04 g/cm <sup>3</sup>		
	400 mL EQU-EF			
	Appearance: liquid pH:	Colour: colourless 6-7	Odor: alcoholic	
	Flash point:	39 °C		
	Specific gravity:	1.04 g/cm <sup>3</sup>		
	125 mL FIL-EF			
	Appearance: liquid	Colour: colourless	Odor: odorless	
	pH: Specific gravity:	6-7 1.06 g/cm³		
	150 mL LYS-EF			
	Appearance: liquid	Colour: blue	Odor: odorless	
	pH: Specific gravity:	13 1.008 g/cm³		
	150 mL NEU-EF Appearance: liquid	Colour: colourless	Odor: acetic	
	pH:	4-5		
	Flash point: Specific gravity:	63 °C 1.19 g/cm³		
	opcomo gravity.	1.10 g/off		
	150 mL RES-EF Appearance: liquid	Colour: colourless	Odor: odorless	
	pH:	7.5 - 8.5	Oddi. Oddiless	
	Specific gravity:	1.01 g/cm <sup>3</sup>		
	0.6-100 mg RNase A (Iyo)			
	Appearance: solid (lyoph.) Solubility in water:	Colour: colourless 0-100 %	Odor: odorless	
	30 mL TE-EF	Colour: colourlaca	Odor: odorless	
	Appearance: liquid pH:	Colour: colourless 7.2-7.7	Ouor. ouoriess	
	Specific gravity:	1.0 g/cm <sup>3</sup>		
	500 mL WASH-EF			
	Appearance: liquid	Colour: colourless 6-7	Odor: alcoholic	
	pH: Flash point:	6-7 39 °C		
	Specific gravity:	1.04 g/cm <sup>3</sup>		
	35 mL H <sub>2</sub> O-EF (for 70% ethanol)			
	Appearance: liquid	Colour: colourless	Odor: odorless	
	pH: Specific gravity:	6-8 1.0 g/cm³		



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30 mL H<sub>2</sub> O-EF

Appearance: liquid pH: Specific gravity:

Colour: colourless 6-8 1.0 g/cm<sup>3</sup>

Odor: odorless

#### 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

no further data available.

- 10.2 Chemical stability
  - No known instability.
- 10.3 Possibility of hazardous reactions

But avoid reactions with oxidizing agents. No further data available.

#### 10.4 Conditions to avoid

Not necessary. But can form explosive gases/vapour with air. Use only in a well-ventilated working areas. ---

#### 10.5 Incompatible materials

Avoid contact with strong acids or alkalines. Avoid storage with oxidising substances.

#### 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.

### 180 mL ELU-EF

Chemical: 2-prop	anol		CAS No.: 67-63-0
TSCA Inventory:	listed	California Proposition 65 List: not lis	
ACGIH:	1230 ppm		
Exposure Routes:	inhalation, ingestion,	skin and/or eye contact	
Target Organs:	Eyes, skin, respirator	y system	
Symptoms:	irritation eyes, nose,	throat; drowsiness, dizziness, headac	he; dry cracking skin; in animals: narcosis
Australia NICNAS:		Canada CEPA 1999: DSL y	es
Japan CSCL/PRTR:	PAC yes, Japan PDS		
Japan ISHL:	listed ≥1,0%/≥0,1%, /	Article 57-2 (SDS required)	
South Korea TCCA:			
Korea Exist.Chem.Inventory			
LD50 <sub>orl rat</sub> :	5045 mg/kg		
LC_Loworl hmn :	3570 mg/kg		
LC50ihl rat :	16 <sub>4h</sub> g/m <sup>3</sup>		
LD50 <sub>drm rbt</sub> :	12.8 g/kg		
TRGS 905 (DE):	R <sub>F</sub> C		
Chemical: potass	sium chloride		CAS No.: 7447-40-7
TSCA Inventory:	listed		
Korea Exist.Chem.Inventory	: KE-29086		
LD50 <sub>orl rat</sub> :	2600 mg/kg		
	a a la las instrumente d'Ol		
	cals/mixture < 1%		CAS No.: -
TSCA Inventory: Korea Exist.Chem.Inventory	all listed, <1%		
Notea Exist. Cheminiventory			



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1000	0 mL ENDO-EF					
	Chemical:	ethanol			CAS No.: 64-17-5d	
	TSCA Inventory:		listed	California Proposition 65 List: not lis		
F	ACGIH:		1000 ppm	·		
	Exposure Routes:			, skin and/or eye contact		
	Farget Organs:			ory system, central nervous system, liv		
	Symptoms:			nose; headache, drowsiness, lassitud	e (weakness, exhaustion), narc	osis; cough
	iver damage; anemia	i; reprod				
	Australia NICNAS:		not listed	Canada CEPA 1999: DSL y	/es	
	Japan CSCL/PRTR: Japan ISHL:		not listed, Japan PD	Article 57-2 (SDS required)		
	South Korea TCCA:		not listed	Article 37-2 (SDS required)		
	Korea Exist.Chem.In	ventorv.				
	_D50 <sub>orl rat</sub> :		6200 mg/kg			
	_C_Lowihl gpg :		21.9 g/m <sup>3</sup>			
L	_C_Low <sub>orl hmn</sub> :		1400 mg/kg			
L	_C50 <sub>ihl mouse</sub> :		[4h] 39 g/m <sup>3</sup>			
L	_C50 <sub>ihl rat</sub> :		[10h] 20 g/m <sup>3</sup>			
	_D50 <sub>drm rbt</sub> :		20 000 mg/kg			
L	_D50oral mouse :		3450 mg/kg			
г	TRGS 905 (DE):		K5, M5, R <sub>F</sub> C			
(	Chemical:	potassi	um chloride		CAS No.: 7447-40-7	
	TSCA Inventory:		listed			
ł	Korea Exist.Chem.Inv	ventory:	KE-29086			
L	_D50 <sub>orl rat</sub> :	•	2600 mg/kg			
(	Chemical:	Triton®	X-114		CAS No.: 9036-19-5	
	TSCA Inventory:		listed			
ľ	Korea Exist.Chem.Inv	ventory:	KE-33567			
(	Chemical:	chemic	als/mixture < 1%		CAS No.: -	
Ţ	TSCA Inventory:		all listed, <1%			
ł	Korea Exist.Chem.In	ventory:	listed			
400	mL EQU-EF					
(	Chemical:	ethanol			CAS No.: 64-17-5d	
С Т	TSCA Inventory:	ethanol	listed	California Proposition 65 List: not lis		
0 T A	TSCA Inventory: ACGIH:	ethanoi	listed 1000 ppm	·		
C 1 <i>A</i> E	TSCA Inventory: ACGIH: Exposure Routes:	ethanol	listed 1000 ppm inhalation, ingestion	, skin and/or eye contact	sted	
C T A E T	TSCA Inventory: ACGIH: Exposure Routes: Target Organs:		listed 1000 ppm inhalation, ingestion Eyes, skin, respirato	, skin and/or eye contact ory system, central nervous system, liv	sted ver, blood, reproductive system	osis: coua
C T A E T S	TSCA Inventory: ACGIH: Exposure Routes: Farget Organs: Symptoms:		listed 1000 ppm inhalation, ingestion Eyes, skin, respirato irritation eyes, skin,	, skin and/or eye contact	sted ver, blood, reproductive system	osis; coug
(                 	TSCA Inventory: ACGIH: Exposure Routes: Target Organs:		listed 1000 ppm inhalation, ingestion Eyes, skin, respirato irritation eyes, skin, uctive, teratogenic	, skin and/or eye contact bry system, central nervous system, liv nose; headache, drowsiness, lassitud	sted rer, blood, reproductive system e (weakness, exhaustion), narc	osis; coug
(   	TSCA Inventory: ACGIH: Exposure Routes: Farget Organs: Symptoms: iver damage; anemia		listed 1000 ppm inhalation, ingestion Eyes, skin, respirato irritation eyes, skin,	, skin and/or eye contact ory system, central nervous system, liv nose; headache, drowsiness, lassitud Canada CEPA 1999: DSL y	sted rer, blood, reproductive system e (weakness, exhaustion), narc	osis; coug
(   	TSCA Inventory: ACGIH: Exposure Routes: Farget Organs: Symptoms: iver damage; anemia Australia NICNAS:	a; reprod	listed 1000 ppm inhalation, ingestion Eyes, skin, respirato irritation eyes, skin, uctive, teratogenic not listed not listed, Japan PD	, skin and/or eye contact ory system, central nervous system, liv nose; headache, drowsiness, lassitud Canada CEPA 1999: DSL y	sted rer, blood, reproductive system e (weakness, exhaustion), narc	osis; coug
C T E T S S I I J J J J	TSCA Inventory: ACGIH: Exposure Routes: Farget Organs: Symptoms: iver damage; anemia Australia NICNAS: Japan CSCL/PRTR:	a; reprod	listed 1000 ppm inhalation, ingestion Eyes, skin, respirato irritation eyes, skin, uctive, teratogenic not listed not listed, Japan PD	, skin and/or eye contact bry system, central nervous system, liv nose; headache, drowsiness, lassitud Canada CEPA 1999: DSL y SCL: not listed	sted rer, blood, reproductive system e (weakness, exhaustion), narc	osis; coug
C T E S S J J S S S S S S S S S	TSCA Inventory: ACGIH: Exposure Routes: Farget Organs: Symptoms: iver damage; anemia Australia NICNAS: Japan CSCL/PRTR: Japan ISHL:	a; reprod	listed 1000 ppm inhalation, ingestion Eyes, skin, respirato irritation eyes, skin, uctive, teratogenic not listed not listed, Japan PD listed ≥0,1%/≥0,1%, not listed KE-13217	, skin and/or eye contact bry system, central nervous system, liv nose; headache, drowsiness, lassitud Canada CEPA 1999: DSL y SCL: not listed	sted rer, blood, reproductive system e (weakness, exhaustion), narc	osis; coug
C T E T S S II J S S K L	TSCA Inventory: ACGIH: Exposure Routes: Farget Organs: Symptoms: iver damage; anemia Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.Inv -D50 <sub>orl rat</sub> :	a; reprod	listed 1000 ppm inhalation, ingestion Eyes, skin, respirato irritation eyes, skin, uctive, teratogenic not listed not listed, Japan PD listed $\geq 0,1\%/\geq 0,1\%$ , not listed KE-13217 6200 mg/kg	, skin and/or eye contact bry system, central nervous system, liv nose; headache, drowsiness, lassitud Canada CEPA 1999: DSL y SCL: not listed	sted rer, blood, reproductive system e (weakness, exhaustion), narc	osis; coug
C T E T S S II J J S S F L L	TSCA Inventory: ACGIH: Exposure Routes: Farget Organs: Symptoms: iver damage; anemia Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.Inv LD50 <sub>orl rat</sub> : LC_LoW <sub>ihl</sub> gpg :	a; reprod	listed 1000 ppm inhalation, ingestion Eyes, skin, respirato irritation eyes, skin, uctive, teratogenic not listed not listed, Japan PD listed $\geq 0,1\%/\geq 0,1\%$ , not listed KE-13217 6200 mg/kg 21.9 g/m <sup>3</sup>	, skin and/or eye contact bry system, central nervous system, liv nose; headache, drowsiness, lassitud Canada CEPA 1999: DSL y SCL: not listed	sted rer, blood, reproductive system e (weakness, exhaustion), narc	osis; coug
C T E T S S H J J S S K L L L	TSCA Inventory: ACGIH: Exposure Routes: Farget Organs: Symptoms: iver damage; anemia Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.Inv LD50orl rat : LC_LoWihl gpg : LC_LoWorl hmn :	a; reprod	listed 1000 ppm inhalation, ingestion Eyes, skin, respirato irritation eyes, skin, uctive, teratogenic not listed not listed, Japan PD listed $\geq 0,1\%/\geq 0,1\%$ , not listed KE-13217 6200 mg/kg 21.9 g/m <sup>3</sup> 1400 mg/kg	, skin and/or eye contact bry system, central nervous system, liv nose; headache, drowsiness, lassitud Canada CEPA 1999: DSL y SCL: not listed	sted rer, blood, reproductive system e (weakness, exhaustion), narc	osis; coug
C T E T S S H I J J S S H L L L L L	TSCA Inventory: ACGIH: Exposure Routes: Farget Organs: Symptoms: iver damage; anemia Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.Inv -D50orl rat : -C_Lowihl gpg : -C_Loworl hmn : -C50ihl mouse :	a; reprod	listed 1000 ppm inhalation, ingestion Eyes, skin, respirato irritation eyes, skin, uctive, teratogenic not listed not listed, Japan PD listed $\geq 0,1\%/\geq 0,1\%$ , not listed KE-13217 6200 mg/kg 21.9 g/m <sup>3</sup> 1400 mg/kg [4h] 39 g/m <sup>3</sup>	, skin and/or eye contact bry system, central nervous system, liv nose; headache, drowsiness, lassitud Canada CEPA 1999: DSL y SCL: not listed	sted rer, blood, reproductive system e (weakness, exhaustion), narc	osis; coug
C T E T S S S S F L L L L L L L L	TSCA Inventory: ACGIH: Exposure Routes: Farget Organs: Symptoms: iver damage; anemia Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.Inv .D50 <sub>orl rat</sub> : .C_LoWihl gpg : .C_CoWihl gpg : .C_S0ihl mouse : .C50ihl mouse :	a; reprod	listed 1000 ppm inhalation, ingestion Eyes, skin, respirato irritation eyes, skin, uctive, teratogenic not listed not listed, Japan PD listed $\geq 0,1\%/\geq 0,1\%$ , not listed KE-13217 6200 mg/kg 21.9 g/m <sup>3</sup> 1400 mg/kg [4h] 39 g/m <sup>3</sup> [10h] 20 g/m <sup>3</sup>	, skin and/or eye contact bry system, central nervous system, liv nose; headache, drowsiness, lassitud Canada CEPA 1999: DSL y SCL: not listed	sted rer, blood, reproductive system e (weakness, exhaustion), narc	osis; coug
C T E T S S J J S S K L L L L L L L L L L	TSCA Inventory: ACGIH: Exposure Routes: Farget Organs: Symptoms: iver damage; anemia Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.Inv -D50orl rat : -C_Lowihl gpg : -C_Loworl hmn : -C50ihl mouse :	a; reprod	listed 1000 ppm inhalation, ingestion Eyes, skin, respirato irritation eyes, skin, uctive, teratogenic not listed not listed, Japan PD listed $\geq 0,1\%/\geq 0,1\%$ , not listed KE-13217 6200 mg/kg 21.9 g/m <sup>3</sup> 1400 mg/kg [4h] 39 g/m <sup>3</sup>	, skin and/or eye contact bry system, central nervous system, liv nose; headache, drowsiness, lassitud Canada CEPA 1999: DSL y SCL: not listed	sted rer, blood, reproductive system e (weakness, exhaustion), narc	osis; coug
C T E T S S II J J S S F L L L L L L L	TSCA Inventory: ACGIH: Exposure Routes: Farget Organs: Symptoms: iver damage; anemia Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.Inv LD50orl rat : LC_Lowinl gpg : LCS0ihl mouse : LCS0ihl rat : LD50dmr rbt :	a; reprod	listed 1000 ppm inhalation, ingestion Eyes, skin, respirato irritation eyes, skin, uctive, teratogenic not listed not listed, Japan PD listed ≥0,1%/≥0,1%, not listed KE-13217 6200 mg/kg 21.9 g/m <sup>3</sup> 1400 mg/kg [4h] 39 g/m <sup>3</sup> 20 000 mg/kg	, skin and/or eye contact bry system, central nervous system, liv nose; headache, drowsiness, lassitud Canada CEPA 1999: DSL y SCL: not listed	sted rer, blood, reproductive system e (weakness, exhaustion), narc	osis; coug
C T F E T S S II J J S S F L L L L L L L L L	TSCA Inventory: ACGIH: Exposure Routes: Farget Organs: Symptoms: iver damage; anemia Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.Inv LD50 <sub>orl rat</sub> : LC_LoWihl gpg : LC_LoWihl gpg : LC_LoWorl hmn : LC50ihl mouse : LC50ihl mouse : LD50drm rbt : LD50 <sub>oral mouse</sub> : IRGS 905 (DE):	a; reprod	listed 1000 ppm inhalation, ingestion Eyes, skin, respirato irritation eyes, skin, uctive, teratogenic not listed ot listed, Japan PD listed ≥0,1%/≥0,1%, not listed KE-13217 6200 mg/kg 21.9 g/m <sup>3</sup> 1400 mg/kg [4h] 39 g/m <sup>3</sup> 20 000 mg/kg 3450 mg/kg K5, M5, R <sub>F</sub> C	, skin and/or eye contact bry system, central nervous system, liv nose; headache, drowsiness, lassitud Canada CEPA 1999: DSL y SCL: not listed	sted rer, blood, reproductive system e (weakness, exhaustion), narc res	osis; coug
C T F S S II J J S S F L L L L L L L L L C C	TSCA Inventory: ACGIH: Exposure Routes: Farget Organs: Symptoms: iver damage; anemia Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.Inv LD50 <sub>orl rat</sub> : LC_LoW <sub>ihl</sub> gpg : LC_LoW <sub>ihl</sub> gpg : LC_LoW <sub>ihl</sub> gpg : LC_LoW <sub>ihl</sub> mouse : LC50 <sub>ihl</sub> mouse : LC50 <sub>ihl</sub> rat : LD50 <sub>orlal</sub> mouse : IRGS 905 (DE): Chemical:	a; reprod	listed 1000 ppm inhalation, ingestion Eyes, skin, respirato irritation eyes, skin, uctive, teratogenic not listed not listed, Japan PD listed ≥0,1%/≥0,1%, not listed KE-13217 6200 mg/kg 21.9 g/m <sup>3</sup> 1400 mg/kg [4h] 39 g/m <sup>3</sup> 20 000 mg/kg 3450 mg/kg	, skin and/or eye contact bry system, central nervous system, liv nose; headache, drowsiness, lassitud Canada CEPA 1999: DSL y SCL: not listed	sted rer, blood, reproductive system e (weakness, exhaustion), narc	osis; coug
C T F E T S S F L J J S S F H L L L L L L L L T T C T	TSCA Inventory: ACGIH: Exposure Routes: Farget Organs: Symptoms: iver damage; anemia Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.Inv LD50 <sub>orl rat</sub> : LC_LoWihl gpg : LC_LoWihl gpg : LC_LoWorl hmn : LC50ihl mouse : LC50ihl mouse : LD50drm rbt : LD50 <sub>oral mouse</sub> : IRGS 905 (DE):	a; reprod ventory: <i>potassi</i> i	listed 1000 ppm inhalation, ingestion Eyes, skin, respirato irritation eyes, skin, uctive, teratogenic not listed not listed, Japan PD listed ≥0,1%/≥0,1%, not listed KE-13217 6200 mg/kg 21.9 g/m <sup>3</sup> 1400 mg/kg [4h] 39 g/m <sup>3</sup> [10h] 20 g/m <sup>3</sup> 20 000 mg/kg 3450 mg/kg K5, M5, R <sub>F</sub> C <i>um chloride</i> listed	, skin and/or eye contact bry system, central nervous system, liv nose; headache, drowsiness, lassitud Canada CEPA 1999: DSL y SCL: not listed	sted rer, blood, reproductive system e (weakness, exhaustion), narc res	osis; cougl



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F: 740426.10 nting date: 12.05.2021		oBond Xtra Maxi Plus EF (10) of issue: 17.02.2021	Page: 17/23
Chemical: TSCA Inventory: Korea Exist.Chem.In	<i>Triton</i> ® X-114 listed iventory: KE-33567	CAS No.:	9036-19-5
Chemical: TSCA Inventory: Korea Exist.Chem.In	<i>chemicals/mixture</i> < 1% all listed, <1% iventory: listed	CAS No.:	-
125 mL FIL-EF			
Chemical: TSCA Inventory: Korea Exist.Chem.In LD50 <sub>orl rat</sub> :	potassium chloride listed iventory: KE-29086 2600 mg/kg	CAS No.:	7447-40-7
Chemical: TSCA Inventory: Korea Exist.Chem.In	<i>chemicals/mixture</i> < 1% all listed, <1% iventory: listed	CAS No.:	-
150 mL LYS-EF			
Chemical: TSCA Inventory: Exposure Routes: Target Organs: Symptoms: Japan CSCL/PRTR:	Eyes, skin, respirator -	California Proposition 65 List: not listed skin and/or eye contact y system	1310-73-2d
Japan ISHL: Korea Exist.Chem.In LD50 <sub>orl rat</sub> : LD50 <sub>drm rbt</sub> : LD50 <sub>orl mus</sub> :	listed ≥1,0%/≥1,0% S iventory: KE-31487 [< 1%] > 50 g/kg not applicable [< 1%] > 4 g/kg	DS required	
Chemical: TSCA Inventory: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.In LD50orl rat : LC50inh rat : LD50drm rbt :	not listed not listed	CAS No.: California Proposition 65 List: not listed Canada CEPA 1999: DSL yes Inated Chemical Substance, Japan PDSCL: not	
Chemical: TSCA Inventory:	<i>indicator dye(s)</i> all listed, <1%	CAS No.:	-
150 mL NEU-EF			
Chemical: TSCA Inventory: Korea Exist.Chem.In	acetate buffer solution all listed iventory: listed	CAS No.:	-
150 mL RES-EF			
Chemical: TSCA Inventory: Korea Exist.Chem.In	chemicals/mixture < 1% all listed, <1%	CAS No.:	-



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F: 740426.10		NucleoBond Xtra Maxi Plus EF (10)	Page: 18/23
inting date: 12.05.2021		Date of issue: 17.02.2021	
0.6-100 mg RNas			004.00.4
Chemical:	RNase	CAS No.: 9	001-99-4
TSCA Inventory:	listed		
Japan CSCL/PRT Japan ISHL:	R: not listed not listed		
	n.Inventory: KE-30341		
LD50intraperitonaea			
Acute Effects: Ca	use after impairments of hea	alth when ingested in small quantities.	
Chronic Effects: N	May cause sensitization by s	kin contact, also in repeated contact of small amounts.	May cause allergy or asthma
symptoms or brea	athing difficulties if inhaled.		
30 mL TE-EF			
Chemical:	chemicals/mixture < 1%	CAS No.: -	
TSCA Inventory:	all listed, <1%		
Korea Exist.Chen	n.Inventory: listed		
	_		
500 mL WASH-E Chemical:	<b>F</b> ethanol	CAS No.: 6	4-17-5d
TSCA Inventory:	listed	California Proposition 65 List: not listed	
ACGIH:	1000 ppm		
Exposure Routes		stion, skin and/or eye contact	
Target Organs:		iratory system, central nervous system, liver, blood, rep	
Symptoms:		kin, nose; headache, drowsiness, lassitude (weakness	, exhaustion), narcosis; cough;
	emia; reproductive, teratoger		
Australia NICNAS		Canada CEPA 1999: DSL yes	
Japan CSCL/PRT Japan ISHL:		n PDSCL: not listed 1%, Article 57-2 (SDS required)	
South Korea TCC		170, Allice 37-2 (SDS required)	
	n.Inventory: KE-13217		
LD50 <sub>orl rat</sub> :	6200 mg/kg		
LC_Low <sub>ihl gpg</sub> :	21.9 g/m <sup>3</sup>		
LC_Low <sub>orl hmn</sub> :	1400 mg/kg		
LC50 <sub>ihl mouse</sub> :	[4h] 39 g/m <sup>3</sup>		
LC50 <sub>ihl rat</sub> :	[10h] 20 g/m <sup>3</sup>		
LD50 <sub>drm rbt</sub> :	20 000 mg/kg		
LD50 <sub>oral mouse</sub> :	3450 mg/kg		
TRGS 905 (DE):	K5, M5, R <sub>F</sub> C		
Chemical:	potassium chloride	CAS No.: 7	447-40-7
TSCA Inventory:	listed		
	n.Inventory: KE-29086		
LD50orl rat :	2600 mg/kg		
Chemical:	chemicals/mixture < 1%	CAS No.: -	
TSCA Inventory:	all listed, <1%		
Korea Exist.Chen			
35 mL H <sub>2</sub> O-EF (f	or 70% ethanol)		
Chemical:	water	CAS No.: 7	732-18-5
TSCA Inventory:	listed		
	n.Inventory: KE-35400		
30 mL H <sub>2</sub> O-EF			
Chemical:	water	CAS No.: 7	732-18-5
TSCA Inventory:	listed		
Korea Exist.Chen	n.Inventory: KE-35400		



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Version: M V 4.12.0 E-mail: info@mn-net.com



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	0426.10 date: 12.05.2021	NucleoBond Xtra Maxi Plus EF (10) Date of issue: 17.02.2021	) Page: 19/2
	ON 12: Ecological infor		
	•	nation	
2.1	Toxicity		
	Following information is valid for	bure substances.	
	180 mL ELU-EF	anal	CAS No.: 67-63-0
	Chemical: 2-pro PNEC(fresh water) : PNEC = Predicted No Effected Co	140.9 mg/L	CAS NO.: 07-03-0
	LC50 <sub>fish/96h</sub> :	1400 mg/L	
	EC50 <sub>daphnia/48h</sub> :	13.3 g/L	
	IC50scenedesmus quadricauda/	<sub>2h</sub> : >1000 mg/L	
	EC10 <sub>pseudomonas putita/16h</sub> : Water hazard class (DE):	EC5: 1050 mg/L 1 WGK No.: 0135	
	Dispersion coefficient <sub>(octand</sub>		
	Storage class (VCI):	3	
	Chemical: <i>potas</i> Water hazard class (DE):	sium chloride 1	CAS No.: 7447-40-7
	Storage class (VCI):	12-13	
		12 10	
		cals/mixture < 1%	CAS No.: -
	Water hazard class (DE):	1	
	Storage class (VCI):	12-13	
	1000 mL ENDO-EF	-1	
	Chemical: ethar		CAS No.: 64-17-5d
	PNEC(fresh water) : PNEC = Predicted No Effected Co	ncentration	
	LC50 <sub>daphnia</sub> magna/48h :	>100 g/L	
	LC50pimephales promelas/96h	13.4-15.1 g/L	
	LC50leuciscus idus/96h	[48h] 8.14 g/L	
	LC50fish/96h	13 g/L 9.3-14.2 g/L	
	EC50 <sub>daphnia/48h</sub> : IC50 <sub>scenedesmus quadricauda/</sub>		
	EC10pseudomonas putita/16h :	[EC5] 6500 mg/L	
	Water hazard class (DE):	1 WGK Ňo.: 0096	
	Dispersion coefficient <sub>(octano</sub>		
	Storage class (VCI):	3	
		sium chloride	CAS No.: 7447-40-7
	Water hazard class (DE):	1	
	Storage class (VCI):	12-13	
		® X-114 ong lasting effects. Avoid contact of substance/n	CAS No.: 9036-19-5
		t not be labelled with P phrases until 125 mL (El	
	Water hazard class (DE):	1	,
	Storage class (VCI):	12-13	
	Chemical: chem	cals/mixture < 1%	CAS No.: -
	Water hazard class (DE):	1	
	Storage class (VCI):	12-13	
	400 mL EQU-EF	-1	
	Chemical: ethar PNEC <sub>(fresh water)</sub> :	o/ 0.96 mg/L	CAS No.: 64-17-5d
	PNEC (fresh water) : PNEC = Predicted No Effected Co	ncentration	
	LC50 <sub>daphnia</sub> magna/48h :	>100 g/L	
	LC50pimephales promelas/96h	13.4-15.1 g/L	
	LC50 <sub>leuciscus</sub> idus/96h	[48h] 8.14 g/L	
	LC50 <sub>fish/96h</sub> : EC50 <sub>daphnia</sub> /48h :	13 g/L 9.3-14.2 g/L	
	IC50scenedesmus quadricauda/		
	EC10pseudomonas putita/16h :	[EC5] 6500 mg/L	
	Water hazard class (DE):	1 WGK No.: 0096	
	Dispersion coefficient <sub>(octane</sub> Storage class (VCI):	-water): -0.31 3	



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EF: 740426.10 rinting date: 12.05	5.2021		NucleoBond Xtra Maxi Plus EF (10) Date of issue: 17.02.2021		Page: 20/23
	Chemical:	potassium chlo		CAS No.: 7447-40-7	
	Water hazard class ( Storage class (VCI):	UC).	1 12-13		
	Chemical:	Triton® X-114		CAS No.: 9036-19-5	
			ng effects. Avoid contact of substance/mixture to		
	Water hazard class (		labelled with P phrases until 125 mL (EU 1272/2 1	.000 Annex I - 1.5.2).	
	Storage class (VCI):	<i>u</i> <u>-</u> <i>j</i> .	12-13		
	Chemical:	chemicals/mixt		CAS No.: -	
	Water hazard class ( Storage class (VCI):	UE):	1 12-13		
	Storage Glass (VOI).		12-10		
125	mL FIL-EF				
125	Chemical:	potassium chlo	oride	CAS No.: 7447-40-7	
	Water hazard class (		1		
	Storage class (VCI):		12-13		
	Chamical	obomicala/min	auto - 19/	CASNo	
	Chemical: Water hazard class (	chemicals/mixt	ure < 1% 1	CAS No.: -	
	Storage class (VCI):		12-13		
	- , , ,				
150	mL LYS-EF				
	Chemical:	sodium hydrox		CAS No.: 1310-73-2d	
	LC50leuciscus idus/96h	:	35-189 mg/L		
	LC50 <sub>fish/96h</sub> :		45.4 mg/L		
	EC50 <sub>daphnia/48h</sub> : Water hazard class (	DE).	>100 mg/L nwg WGK No.: 0142		
	Storage class (VCI):		12-13		
	Chemical:	dodecyl sulfate		CAS No.: 151-21-3	
	LC50daphnia magna/48l LC50fish/96h :	n:	6.3 mg/L 1.31-22.5 mg/L		
	Water hazard class (	DE):	2		
	Dispersion coefficien	t(octanol-water) :	1.6		
	Storage class (VCI):		12-13		
	Chemical:	indiantar duc/-	1	CAS No.: -	
	Storage class (VCI):	indicator dye(s	12-13	CAS NU	
150	mL NEU-EF				
.50	Chemical:	acetate buffer	solution	CAS No.: -	
	Storage class (VCI):		12		
150	mL RES-EF	above to a la la la			
	Chemical: Water hazard class (	chemicals/mixt		CAS No.: -	
	Storage class (VCI):	υ <u>μ</u> .	1 12-13		
0 6-	100 mg RNase A (ly	o)			
0.0-	Chemical:	RNase		CAS No.: 9001-99-4	
	Water hazard class (		1		
	Storage class (VCI):		13		
30 n	nL TE-EF	obomical- (mini	auto - 19/	CARNA	
	Chemical: Water hazard class (	chemicals/mixt	1	CAS No.: -	
	Storage class (VCI):	<i>u</i> – <i>j</i> .	12-13		
	,				
500	mL WASH-EF				
	Chemical:	ethanol		CAS No.: 64-17-5d	
	PNEC (fresh water) : PNEC = Predicted No Effe	acted Concentration	0.96 mg/L		
			>100 g/L		
	LC50daphnia magna/48l LC50pimephales promel		13.4-15.1 g/L		
			J. J		MANA PP pet
					www.mn-net.



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	LC50leuciscus idus/96h	[48h] 8.14 g/L		
	LC50 <sub>fish/96</sub> h	13 g/L		
	EC50 <sub>daphnia/48h</sub> : IC50 <sub>scenedesmus</sub> guadricauda/72h :	9.3-14.2 g/L [7d] 5000 mg/L		
	EC10pseudomonas putita/16h :	[EC5] 6500 mg/L		
	Water hazard class (DE):	1 WGK No.: 0096		
	Dispersion coefficient <sub>(octanol-water)</sub> :	-0.31		
	Storage class (VCI):	3		
	Chemical: potassium chi		CAS No.: 7447-40-7	
	Water hazard class (DE):	1		
	Storage class (VCI):	12-13		
	Chemical: chemicals/mix	xture < 1%	CAS No.: -	
	Water hazard class (DE): Storage class (VCI):	12-13		
	35 mL H <sub>2</sub> O-EF (for 70% ethanol)			
	Chemical: water		CAS No.: 7732-18-5	
	30 mL H <sub>2</sub> O-EF			
	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 assess	nent		
	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

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

## **SECTION 14: Transport information**

14.1 UN number: 14.3 Class: Road transport		UN proper shipping name: F Packing group: III	lammable liquid, n.o.s. (2-propanol mixture)
Classification code:	F1		
Limited Quantity:	5 L	Tunnel restriction code:	E
Excepted Quantity:	E 1	Special instructions: 640E	
Air transport			
PAX:	355	max. weight PAX: 60 L	
CAO:	366	max. weight CAO: 220 L	
Maritime transport			
EmS:	F-E, S-E	Storage category: A	

#### 14.5 **Environmental hazards**

none, contains only small quantities of hazardous substances, contains only small amounts of these substances

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#### 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

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

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

	Elot of folovant fi ph	14565		
	H226	Flammable liquid and vapour.		
	H315	Causes skin irritation.		
	H319	Causes serious eye irritation.		
	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.		
	H412	Harmful to aquatic life with long lasting effects.		
List of relevant P phrases				

### 1612

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P261sh	Avoid breathing dust/vapours.
P273	Avoid release to the environment.
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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#### 16.5 Sources of key data

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 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

Directive 1999/92/EC Minimum requirements for improving the safety and health protection of workers at risk from potentially explosive atmospheres



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# **MACHEREY-NAGEI**



# **Safety Data Sheet**

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

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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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