# MACHEREY-NAGEI



## Safety Data Sheet

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

REF: 740430.1	NucleoBond 96 Xtra EF (1x96)	Page: 1/21
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 740430.1 NucleoBond 96 Xtra EF (1x96)

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 50 mL H<sub>2</sub> O for 80% EtOH 1 x 60 mL ELU-EF 1 x 200 mL ENDO-EF 1 x 100 mL EQU-EF 1 x 100 mL LYS-EF 1 x 100 mL NEU-EF 1 x 100 mL RES-EF 2 x 0.6-100 mg RNase A (Iyo) 1 x 125 mL TE-EF 1 x 100 mL WASH-EF 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

#### 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:

## 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



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# **MACHEREY-NAGEL**



## **Safety Data Sheet**

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2.1	Classification of the substa	ince or mixture	
	50 mL H <sub>2</sub> O for 80% EtOH		
	Signal word	Do not need labelling as hazardous -	
	No hazard class		
	60 mL ELU-EF		
		GHS02 GHS07	
	Signal word	WARNING	
	Hazard identification	Hazard classes/categories	
	H226 H319	Flam. Liq. 3 Eye Irrit. 2	
	200 mL ENDO-EF		
		GHS02	
	Signal word	WARNING	
	Hazard identification	Hazard classes/categories	
	H226 H412	Flam. Liq. 3 Aquatic Chronic 3	
	100 mL EQU-EF		
		GHS02	
	Signal word	WARNING	
	Hazard identification	Hazard classes/categories	
	H226	Flam. Liq. 3	
	100 mL LYS-EF		
		GHS07	
	Signal word	WARNING	
	Hazard identification	Hazard classes/categories	
	H315 H319	Skin Irrit. 2 Eye Irrit. 2	

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# **MACHEREY-NAGEI**



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100 mL NEU-EF	
Signal word	Do not need labelling as hazardous -
No hazard class	
100 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
125 mL TE-EF	
Signal word	Do not need labelling as hazardous
No hazard class	
100 mL WASH-EF	
	GHS02
Signal word	WARNING
Hazard identification	Hazard classes/categories
H226	Flam. Liq. 3
30 mL H <sub>2</sub> O-EF	
Signal word	Do not need labelling as hazardous -
No hazard class	
Label elements	
	ages must be only labelled with GHS symbol(s) and product identificator(s) (EU 1272/2008 Annex
	nal word: WARNING and highly flammable chemicals/mixtures must not be labelled with H and P

Harmful chemicals/mixtures with signal word: **WARNING** and highly flammable chemicals/mixtures must not be labelled with H and F phrases **until 125 mL** (EU 1272/2008 Annex I - 1.5.2). This labelling exemption is NOT valid for sensibilizing substances.

### 50 mL H<sub>2</sub> O for 80% EtOH

Do not need labelling as hazardous



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# ACHEREY-NAGEI



## **Safety Data Sheet**

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Signal word: -

### 60 mL ELU-EF



Signal word: WARNING

### 200 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.

### 100 mL EQU-EF



Signal word: WARNING

### 100 mL LYS-EF



Signal word: WARNING

### 100 mL NEU-EF

Do not need labelling as hazardous Signal word: -

### 100 mL RES-EF

Do not need labelling as hazardous Signal word: -

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



Signal word: DANGER

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# CHEREY-NAGEL



## Safety Data Sheet

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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.

### 125 mL TE-EF

Do not need labelling as hazardous Signal word: -

### 100 mL WASH-EF



Signal word: WARNING

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

Do not need labelling as hazardous Signal word: -

#### 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. 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
	4 12 1.1

vPvB: not applicable

Other hazards

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

#### 3.1 Substances or 3.2 Mixtures

### 50 mL H<sub>2</sub> O for 80% EtOH Chemica

Chemical: water	
Classification:	No criteria for classification or naming of chemical not required.
Formula:	H <sub>2</sub> O
TSCA Inventory:	listed
REACH Reg. No.:	exempt, Annex IV
EC No.:	231-791-2
RTECS:	ZC0110000
KE No.:	KE-35400
Concentration:	90 - <100 %
acc. CLP (GHS):	The criteria for classification are not fulfilled.

CAS No.: 7732-18-5

60 mL ELU-EF



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REF: 740430.1 Printing date: 12.05.2021	NucleoBond 96 2 Date of issue: 17		Page: 6
Thing date. 12.00.2021		.02.2021	
	propanol		CAS No.: 67-63-0
Classification:	H225, Flam. Liq. 2, H319, Eye	e Irrit. 2, H336, STOT S	E 3
Formula: Pseudonym:	C <sub>3</sub> H <sub>8</sub> O isopropanol, IPA, propan-2-ol		
TSCA Inventory:			
REACH Reg. No			
EC No.:	200-661-7	Indice No.:	603-117-00-0
RTECS: KE No.:	NT8050000 KE-29363	MFCD:	00011674
Concentration:	10 - <15 %		
acc. CLP (GHS):		e Irrit. 2	
Chemical: po	tassium chloride		CAS No.: 7447-40-7
Classification:	No criteria for classification or naming	of chemical not required.	
Formula:	KCI		
TSCA Inventory: REACH Reg. No			
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 fu	ılfilled.	
	emicals/mixture < 1%		CAS No.: -
Classification:	No criteria for classification or naming	of chemical not required.	
TSCA Inventory: KE No.:	all listed, <1% listed		
Concentration:	0.1 - <1 %		
acc. CLP (GHS):	The criteria for classification are not fu	ulfilled.	
200 mL ENDO-EF Chemical: <i>eth</i>	anol (diluted < 20 %)		CAS No.: 64-17-5d
	enatured with 1%IPA/1%MEK, acc.	2016/1867/EU)	
Classification:	H225, Flam. Liq. 2	,	
Formula: Pseudonym:	C <sub>2</sub> H <sub>6</sub> O; C <sub>2</sub> H <sub>5</sub> OH ethyl alcohol, methylated spirit		
TSCA Inventory:		L	
REACH Reg. No			
EC No.:	200-578-6	Indice No.:	603-002-00-5
RTECS:	KQ6300000	MFCD:	00003568
KE No.: Concentration:	KE-13217 5 - <20 %		
acc. CLP (GHS):			
Chemical: po	tassium chloride		CAS No.: 7447-40-7
Classification:	No criteria for classification or naming	of chemical not required.	
Formula:	KCI		
TSCA Inventory:			
REACH Reg. No EC No.:	.: 01-2119539416-36-xxxx 231-211-8		
RTECS:	TS8050000	MFCD:	00011360
KE No.:	KE-29086		
Concentration:	1 - <10 %		
acc. CLP (GHS):	The criteria for classification are not fu	ılfilled.	
	ton® X-114		CAS No.: 9036-19-5
Classification:		5, Skin Irrit. 2, H318, Ey	ve Dam. 1, H410, Aquatic Chronic 1
Formula:	C <sub>30</sub> H <sub>54</sub> O <sub>9</sub> Poly(oxy-1 2-ethanediyl) alph	na -[(1 1 3 3-tetramethy	lbutyl)phenyl]omegahydroxy-
Pseudonym <sup>•</sup>			
Pseudonym: TSCA Inventory:			
TSCA Inventory: SVHC listed:	listed		
TSCA Inventory: <b>SVHC listed:</b> EC No.:	232-658-1		
TSCA Inventory: <b>SVHC listed:</b> EC No.: RTECS:	232-658-1 RI0720000		
TSCA Inventory: <b>SVHC listed:</b> EC No.:	232-658-1		



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Printing date: 12.05.20	21	Date of issue: 17.02.2	2021	
	Chemical: chem	nicals/mixture < 1%		CAS No.: -
	Classification:	No criteria for classification or naming of che	emical not required.	
	TSCA Inventory:	all listed, <1%	·	
	KE No.:	listed		
	Concentration:	0.1 - <1 %		
	acc. CLP (GHS):	The criteria for classification are not fulfilled.		
100 mL	EQU-EF			
		no/ (diluted < 20 %)	4007/511)	CAS No.: 64-17-5d
	(den Classification:	atured with 1%IPA/1%MEK, acc.2016 H225, Flam. Liq. 2	/1867/EU)	
	Formula:	$C_2 H_6 O; C_2 H_5 OH$		
	Pseudonym:	ethyl alcohol, methylated spirit		
	TSCA Inventory:	listed		
	REACH Reg. No.:	01-2119457610-43-xxxx		
	EC No.:	200-578-6	Indice No.:	603-002-00-5
	RTECS:	KQ6300000	MFCD:	00003568
	KE No.: Concentration:	KE-13217 5 - <20 %		
	acc. CLP (GHS):	H226, Flam. Liq. 3		
		ssium chloride		CAS No.: 7447-40-7
	Classification:	No criteria for classification or naming of che	mical not required	CAS No.: 7447-40-7
	Formula:	KCI	ennical not required.	
	TSCA Inventory:	listed		
	REACH Reg. No.:	01-2119539416-36-xxxx		
	EC No.:	231-211-8	MEOD.	00011200
	RTECS: KE No.:	TS8050000 KE-29086	MFCD:	00011360
	Concentration:	1 - <10 %		
	acc. CLP (GHS):	The criteria for classification are not fulfilled.		
	Chemical: chem	nicals/mixture < 1%		CAS No.: -
	Classification:	No criteria for classification or naming of che	emical not required	0/10/110
	TSCA Inventory:	all listed, <1%	inioa notroquiroa.	
	KE No.:	listed		
	Concentration:	0.1 - <1 %		
	acc. CLP (GHS):	The criteria for classification are not fulfilled.		
100 mL	LYS-EF			
		m hydroxide solution (diluted < 2 %)		CAS No.: 1310-73-2d
	Classification:	H314, Skin Corr. 1B		
	Formula:	NaOH•H2 O		
	Pseudonym: TSCA Inventory:	diluted soda lye listed		
	REACH Reg. No.:	01-2119457892-27-xxxx		
	EC No.:	215-185-5	Indice No.:	011-002-00-6
	RTECS:	WB4900000		
	KE No.:	KE-31487		
	Concentration: acc. CLP (GHS):	0.5 - <1 % H315, Skin Irrit. 2, H319, Eye Irrit. 2	2	
		· · · · · ·		
	Chemical: dode Classification:	cyl sulfate, sodium salt	av 1 aral 11215 Sk	CAS No.: 151-21-3
		STOT SE 3, H412, Aquatic Chronic 3	DX. 4 01al, H315, SK	in Irrit. 2, H318, Eye Dam. 1, H332, Acute
	Formula:	$C_{12}$ H <sub>25</sub> NaO <sub>4</sub> S		
	Pseudonym:	sodium lauryl sulfate, sulfuric acid i	monododecyl ester	sodium salt
	TSCA Inventory:	listed	,	
	REACH Reg. No.:	01-2119489461-32-xxxx		
	EC No.:	205-788-1		00000175
	RTECS:	WT1050000	MFCD:	00036175
	KE No.: Concentration:	KE-21884 0.1 - <1 %		
	acc. CLP (GHS):	0.1 - < 1 % The criteria for classification are not fulfilled.		

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	Date 0113500. 17.02.2021		
	ator dye(s)	CAS No.: -	
Classification: TSCA Inventory:	No criteria for classification or naming of chemical all listed, <1%	not required.	
Concentration:	< 0.10 %		
acc. CLP (GHS):	The criteria for classification are not fulfilled.		
100 mL NEU-EF			
	te 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.: Concentration:	listed 25 - <45 %		
acc. CLP (GHS):	The criteria for classification are not fulfilled.		
100 mL RES-EF			
	icals/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		CAS No.: 9001-99-4	
Classification:	H334, Resp. Sens. 1	<i>.</i>	
Formula: Pseudonym:	Enzyme Comm. No. 3.1.27.5, origin: bovine Nuclease, ribo-	e pancreas (controlled population)	
TSCA Inventory:	listed		
EC No.:	232-646-6		
RTECS:	RF0760000		
KE No.:	KE-30341		
Concentration:	90 - <100 %		
acc. CLP (GHS):	H334, Resp. Sens. 1		
125 mL TE-EF			
Chemical: chem	icals/mixture < 1%	CAS No.: -	
Classification:	No criteria for classification or naming of chemical	not required.	
TSCA Inventory:	all listed, <1%		
KE No.:			
Concentration: acc. CLP (GHS):	0.1 - <1 % The criteria for classification are not fulfilled.		
100 mL WASH-EF Chemical: ethar	o/ (diluted < 20 %)	CAS No.: 64-17-5d	
	atured with 1%IPA/1%MEK, acc.2016/186		
Classification:	H225, Flam. Liq. 2		
Formula:	$C_2 H_6 O$ ; $C_2 H_5 OH$		
Pseudonym:	ethyl alcohol, methylated spirit		
TSCA Inventory:	listed		
REACH Reg. No.:	01-2119457610-43-xxxx	lice No : 602 002 00 5	
EC No.: RTECS:		lice No.: 603-002-00-5 FCD: 00003568	
KE No.:	KQ6300000 MF	UUU00000	
Concentration:	5 - <20 %		



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Printing	g date: 12.05.2021	Date of issue: 17.02.2021	
	Chemical: potas	sium 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	00044000
	RTECS: KE No.:	TS8050000 MFCD: KE-29086	00011360
	Concentration:	1 - <10 %	
	acc. CLP (GHS):	The criteria for classification are not fulfilled.	
			0.00 M
	Chemical: chemi Classification:	cals/mixture < 1%	CAS No.: -
	TSCA Inventory:	No criteria for classification or naming of chemical not required. all listed, <1%	
	KE No.:	listed	
	Concentration:	0.1 - <1 %	
	acc. CLP (GHS):	The criteria for classification are not fulfilled.	
	30 mL H <sub>2</sub> O-EF Chemical: water		CAS No.: 7732-18-5
	Classification:	No criteria for classification or naming of chemical not required.	CAS NO.: 1152-10-5
	Formula:	$H_2O$	
	TSCA Inventory:	listed	
	REACH Reg. No.:	exempt, Annex IV	
	EC No.:	231-791-2	
	RTECS:	ZC0110000	
	KE No.: Concentration:	KE-35400 90 - <100 %	
	acc. CLP (GHS):	The criteria for classification are not fulfilled.	
3.3	Remarks		
	When not listed, mixtures are	added with water [CAS No. 7732-18-5] to 100%.	
	List of H and P phrases: see s	position 16.1	
	List of H and F philases. See S		
SECT	ION 4: First aid measur	es	
4.1	Description of first aid me	asures	
	•	r zone to fresh air immediately. Ensure quiet, warmth	and provide resuscitation if necessary If
		Take to a doctor, in a raised position if there are brea	
4.1.1	After SKIN Contact	•	5
		g. Rinse the affected skin or mucous membrane thoro	hughly under running water (If possible) use
<del>.</del>		g. Tanoe are anotica star of macous membrane area	aginy ander raining water. (in pessible) dee
	soap.		
4.1.2	soap. <b>After EYE Contact</b>	se thoroughly under running water with the evelid wid	e open with eve washing bottle, eve douche or
	soap. <b>After EYE Contact</b> After contact with the eyes rin	se thoroughly under running water with the eyelid wid	e open with eye washing bottle, eye douche or
4.1.2	soap. <b>After EYE Contact</b> After contact with the eyes rin running water (protect intact e	eye).	e open with eye washing bottle, eye douche or
	soap. After EYE Contact After contact with the eyes rin running water (protect intact e After INHALATION of vapou	eye). I <b>rs</b>	
4.1.2	soap. After EYE Contact After contact with the eyes rin running water (protect intact e After INHALATION of vapou After inhalation of foam or vap	eye). I <b>rs</b> pour fresh air should be inhaled. Keep airways free. Ar	dminister a Dexamethasone spray as soon as
4.1.2	soap. After EYE Contact After contact with the eyes rin running water (protect intact e After INHALATION of vapou After inhalation of foam or vap possible. Ensure quiet, warmt	eye). I <b>rs</b>	dminister a Dexamethasone spray as soon as
I.1.2 I.1.3	soap. After EYE Contact After contact with the eyes rin running water (protect intact e After INHALATION of vapou After inhalation of foam or vap possible. Ensure quiet, warmt inhales oxygen. Secure the bi	eye). I <b>rs</b> Jour fresh air should be inhaled. Keep airways free. Av h, and provide resuscitation if necessary. In the event	dminister a Dexamethasone spray as soon as
4.1.2	soap. After EYE Contact After contact with the eyes rin running water (protect intact e After INHALATION of vapou After inhalation of foam or vap possible. Ensure quiet, warmt inhales oxygen. Secure the bu After ORAL Intake	eye). I <b>rs</b> Jour fresh air should be inhaled. Keep airways free. Av h, and provide resuscitation if necessary. In the event	dminister a Dexamethasone spray as soon as
4.1.2 4.1.3	soap. After EYE Contact After contact with the eyes rin running water (protect intact e After INHALATION of vapou After inhalation of foam or vap possible. Ensure quiet, warmt inhales oxygen. Secure the bu After ORAL Intake After oral intake lots of water s	eye). Insour fresh air should be inhaled. Keep airways free. Any h, and provide resuscitation if necessary. In the event reathing, heart and circulatory function	dminister a Dexamethasone spray as soon as
l.1.2 l.1.3 l.1.4	soap. After EYE Contact After contact with the eyes rin running water (protect intact e After INHALATION of vapou After inhalation of foam or vap possible. Ensure quiet, warmt inhales oxygen. Secure the bu After ORAL Intake After oral intake lots of water = Most important symptoms	eye). Insour fresh air should be inhaled. Keep airways free. Ar h, and provide resuscitation if necessary. In the event reathing, heart and circulatory function should be drunk after it has been ingested s and effects, both acute and delayed	dminister a Dexamethasone spray as soon as of respiratory distress ensure that the patient
l.1.2 l.1.3 l.1.4	soap. After EYE Contact After contact with the eyes rin running water (protect intact e After INHALATION of vapou After inhalation of foam or vap possible. Ensure quiet, warmt inhales oxygen. Secure the bu After ORAL Intake After oral intake lots of water = Most important symptoms	eye). Ins boour fresh air should be inhaled. Keep airways free. And h, and provide resuscitation if necessary. In the event reathing, heart and circulatory function should be drunk after it has been ingested s and effects, both acute and delayed ization by skin contact, also in repeated contact of sm	dminister a Dexamethasone spray as soon as of respiratory distress ensure that the patient
l.1.2 l.1.3 l.1.4 <b>l.2</b>	soap. After EYE Contact After contact with the eyes rin running water (protect intact e After INHALATION of vapou After inhalation of foam or vap possible. Ensure quiet, warmt inhales oxygen. Secure the bi After ORAL Intake After oral intake lots of water a Most important symptoms Chronic Effects: May cause sensit symptoms or breathing difficulties	eye). In s pour fresh air should be inhaled. Keep airways free. Av th, and provide resuscitation if necessary. In the event reathing, heart and circulatory function should be drunk after it has been ingested s and effects, both acute and delayed ization by skin contact, also in repeated contact of sm if inhaled	dminister a Dexamethasone spray as soon as of respiratory distress ensure that the patient all amounts. May cause allergy or asthma
.1.2 .1.3 .1.4	soap. After EYE Contact After contact with the eyes rin running water (protect intact e After INHALATION of vapou After inhalation of foam or vap possible. Ensure quiet, warmt inhales oxygen. Secure the bu After ORAL Intake After oral intake lots of water s Most important symptoms Chronic Effects: May cause sensit symptoms or breathing difficulties Indication of any immedia	eye). Ins boour fresh air should be inhaled. Keep airways free. And h, and provide resuscitation if necessary. In the event reathing, heart and circulatory function should be drunk after it has been ingested s and effects, both acute and delayed ization by skin contact, also in repeated contact of sm	dminister a Dexamethasone spray as soon as of respiratory distress ensure that the patient all amounts. May cause allergy or asthma ent needed



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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.

#### 5.4 Additional information

### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures Do not breathe vapours. 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

### 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 Water hazard class (DE): 2
- 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**

50 mL H <sub>2</sub> O for 80% EtOH Chemical: water		CAS No.: 7732-18-5
60 mL ELU-EF		040 No. 07 00 0
Chemical: 2-propanol	Fight 500 m m/m3	CAS No.: 67-63-0
DNEL: DNEL = Derived No-Effec	[inh] 500 mg/m³ t Level (for workers)	
PNEC(fresh water) : PNEC = Predicted No Effe	140.9 mg/L ected Concentration	
TRGS 900 (DE):	200 ppm / 500 mg/m³ E/e respirable	
Short-term exposure factor: skin resorptive (H), respi	2 (II), Y ratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely	excluded / (Y) certainly excluded
SUVA(CH) MAK value:	200 ppm / 500 mg/m³	



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	<b>TDOO</b> 000 //				
	TRGS 903 (INIOSH:	DE):	[Aceton B/b, U/b] 25 mg/L B blood, U urine, a no limitation, b end of expo [TWA] 400 ppm / 980 mg/m <sup>3</sup>	sition or shift	
	NIOS	SH STEL: Time-weighted ave	500 ppm / 1225 mg/m <sup>3</sup> rage to a reference period of 8 hours, [STEL] Short	t-term exposure limit related to a 15-minute period	
	OSHA:	Ū	[TWA] 400 ppm / 980 mg/m <sup>3</sup>		
	Chemical:	potassium chl	oride	CAS No.: 7447-40-7	
	Chemical:	chemicals/mix	tture < 1%	CAS No.: -	
	200 mL END Chemical:	DO-EF ethanol		CAS No.: 64-17-5d	
	DNEL:		[derm] 343 mg/kg; [inh] 950 mg/m³ t Level (for workers)	CAS No.: 04-17-50	
			0.96 mg/L ected Concentration		
	TRGS 900 (	DE):	200 ppm / 380 mg/m <sup>3</sup> E/e respirable		
	Short-term e	exposure factor: esorptive (H), respi	4 (II), Y ratory sensitizable (Sa), skin sensitizable (Sh), tera	togenic (Z) not securely excluded / (Y) certainly excluded	
	SUVA(CH) N NIOSH:		500 ppm / 960 mg/m³ [TWA] 1000 ppm / 1900 mg/m³		
	[TWA] OSHA:	Time-weighted ave	rage to a reference period of 8 hours, [STEL] Short 1000 ppm / 1900 mg/m <sup>3</sup>	t-term exposure limit related to a 15-minute period	
	Chemical:	potassium chl	oride	CAS No.: 7447-40-7	
	Chemical:	Triton® X-114	I	CAS No.: 9036-19-5	
	Chemical:	chemicals/mix	tture < 1%	CAS No.: -	
	100 mL EQU				
	Chemical: DNEL:	ethanol	[derm] 343 mg/kg; [inh] 950 mg/m³ t Level (for workers)	CAS No.: 64-17-5d	
			0.96 mg/L ected Concentration		
	TRGS 900 (	DE):	200 ppm / 380 mg/m <sup>3</sup> E/e respirable		
	Short-term e	xposure factor: esorptive (H), respi	4 (II), Y	togenic (Z) not securely excluded / (Y) certainly excluded	
	SUVA(CH) N NIOSH:		500 ppm / 960 mg/m <sup>3</sup> [TWA] 1000 ppm / 1900 mg/m <sup>3</sup>		
		Time-weighted ave	rage to a reference period of 8 hours, [STEL] Short 1000 ppm / 1900 mg/m <sup>3</sup>	t-term exposure limit related to a 15-minute period	
	Chemical:	potassium chl		CAS No.: 7447-40-7	
	Chemical:	, chemicals/mix		CAS No.: -	
	100 mL LYS	FF			
	Chemical:	sodium hydro.	xide solution	CAS No.: 1310-73-2d	
	Chemical: NIOSH:	dodecyl sulfat	<i>e, sodium salt</i> not listed	CAS No.: 151-21-3	
		Time-weighted ave	rage to a reference period of 8 hours, [STEL] Short not listed	t-term exposure limit related to a 15-minute period	
	Chemical:	indicator dye(	s)	CAS No.: -	
	100 mL NEL	I-FF			
	Chemical:	acetate buffer	solution	CAS No.: -	



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100 mL	-	010.11
Chemic	I: chemicals/mixture < 1%	CAS No.: -
	ng RNase A (Iyo)	
Chemic	l: RNase	CAS No.: 9001-99-4
125 mL	ſE-EF	
Chemic	l: chemicals/mixture < 1%	CAS No.: -
100 mL	WASH-EF	
Chemic		CAS No.: 64-17-5d
DNEL:	[derm] 343 n NEL = Derived No-Effect Level (for worker	h] 950 mg/m³
PNEC <sub>(fr</sub>	sh water) : 0.96 mg/L NEC = Predicted No Effected Concentration	
TRGS 9	00 (DE): 200 ppm / 38 E/e respirable	
Short-te	m exposure factor: 4 (II), Y kin resorptive (H), respiratory sensitizable	sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded
SUVA(C NIOSH:	H) MAK value: 500 ppm / 96 [TWA] 1000	00 mg/m³
USHA:	1000 ppm /	8 hours, [STEL] Short-term exposure limit related to a 15-minute period m <sup>3</sup>
Chemic	l: potassium chloride	CAS No.: 7447-40-7
Chemica	l: chemicals/mixture < 1%	CAS No.: -
30 mL ł	2 <b>O-EF</b>	
Chemica	l: water	CAS No.: 7732-18-5
.2 Exposure	controls	
Good ventila		r resistant to chemicals with floor drainage and washing facilities. The highest
	ory protection pen access of these substances	ole a protection filter, class A/AX. No additional recommendations.
Yes, glo		0 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Anse x gloves with code EN 374-3 level 1.
2.3 Eye pro Yes, sat		ed side shields or wrap-around protection.
2.4 Skin pro	<b>tection</b> ended to avoid contamination wit	azards.
	I hygiene rinking, smoking, taking snuff and	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**

#### Information on basic physical and chemical properties 9.1

<b>50 mL H</b> <sub>2</sub> <b>O for 80% EtOH</b> Appearance: liquid pH: Specific gravity:	Colour: colourless 6-8 1.0 g/cm³	Odor: odorless
<b>60 mL ELU-EF</b> Appearance: liquid pH: Flash point: Specific gravity:	Colour: colourless 8.5-9.5 30 °C 1.04 g/cm³	Odor: alcoholic

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<b>200 mL ENDO-EF</b> Appearance: liquid pH: Flash point: Specific gravity:	Colour: colourless 6-7 39 °C 1.04 g/cm³	Odor: alcoholic	
<b>100 mL EQU-EF</b> Appearance: liquid pH: Flash point: Specific gravity:	Colour: colourless 6-7 39 °C 1.04 g/cm³	Odor: alcoholic	
<b>100 mL LYS-EF</b> Appearance: liquid pH: Specific gravity:	Colour: blue 13 1.008 g/cm³	Odor: odorless	
<b>100 mL NEU-EF</b> Appearance: liquid pH: Flash point: Specific gravity:	Colour: colourless 4-5 63 °C 1.19 g/cm³	Odor: acetic	
<b>100 mL RES-EF</b> Appearance: liquid pH: Specific gravity:	Colour: colourless 7.5 - 8.5 1.01 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	
<b>125 mL TE-EF</b> Appearance: liquid pH: Specific gravity:	Colour: colourless 7.2-7.7 1.0 g/cm³	Odor: odorless	
<b>100 mL WASH-EF</b> Appearance: liquid pH: Flash point: Specific gravity:	Colour: colourless 6-7 39 °C 1.04 g/cm³	Odor: alcoholic	
<b>30 mL H</b> <sub>2</sub> <b>O-EF</b> Appearance: liquid pH: Specific gravity:	Colour: colourless 6-8 1.0 g/cm³	Odor: odorless	

## 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.

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10.3	Possibility of haza But avoid reactions with	oxidizing agents. No furthe	er data available.	
10.4	Conditions to avoi			
			ur with air. Use only in a well-ventilated working are	eas
10.5	Incompatible mate		-	
	•		storage with oxidising substances.	
10.6	Hazardous decom In the original package a period under recommend	Ill parts/all reagents are sa	fety and separated stored. Decompositions are not	observed during the expiration
SECT	ION 11: Toxicolo	gical informatior	n	
11.1	Information on tox Following information	-	<b>ces.</b> Quantitative data on the toxicity of this produc	t are not available.
	50 mL H <sub>2</sub> O for 80%			
	Chemical: TSCA Inventory: Korea Exist.Chem.II	<i>water</i> listed nventory: KE-35400	CAS No	o.: 7732-18-5
	60 mL ELU-EF			
	Chemical: TSCA Inventory:	2 <i>-propanol</i> listed	CAS No California Proposition 65 List: not listed	o.: 67-63-0
	ACGIH:	1230 ppm	·	
	Exposure Routes: Target Organs:	inhalation, inges Eyes, skin, respi	tion, skin and/or eye contact ratory system	
	Symptoms:		ose, throat; drowsiness, dizziness, headache; dry c	racking skin; in animals: narcosis
	Australia NICNAS: Japan CSCL/PRTR			
	Japan ISHL: South Korea TCCA:		1%, Article 57-2 (SDS required)	
	Korea Exist.Chem.li	nventory: KE-29363		
	LD50 <sub>orl rat</sub> : LC_Low <sub>orl hmn</sub> :	5045 mg/kg 3570 mg/kg		
	LC50 <sub>ihl rat</sub> : LD50 <sub>drm rbt</sub> :	16 <sub>4h</sub> g/m³ 12.8 g/kg		
	TRGS 905 (DE):	R <sub>F</sub> C		
	Chemical:	potassium chloride	CAS No	o.: 7447-40-7
	TSCA Inventory:	listed nventory: KE-29086		
	LD50 <sub>orl rat</sub> :	2600 mg/kg		
	Chemical: TSCA Inventory:	chemicals/mixture < 1% all listed, <1%	CAS No	D.: -
	Korea Exist.Chem.li			
	200 mL ENDO-EF Chemical:	ethanol		o.: 64-17-5d
	TSCA Inventory:	listed	California Proposition 65 List: not listed	
	ACGIH: Exposure Routes:	1000 ppm inhalation, inges	tion, skin and/or eye contact	
	Target Organs: Symptoms:	Eyes, skin, respi	ratory system, central nervous system, liver, blood kin, nose; headache, drowsiness, lassitude (weakn	
	liver damage; anem	ia; reproductive, teratogen	ic	55, 5711au50011, 11a100515, 000g1
	Australia NICNAS: Japan CSCL/PRTR	not listed : not listed, Japan	Canada CEPA 1999: DSL yes PDSCL: not listed	
	Japan ISHL: South Korea TCCA:	listed ≥0,1%/≥0,	1%, Article 57-2 (SDS required)	
	Korea Exist.Chem.li			
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LD50 <sub>orl</sub> rat : LC_LoWihl gpg : LC_LoWorl hmn : LC50ihl mouse : LC50ihl rat : LD50drm rbt : LD50oral mouse :	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		
TRGS 905 (DE): Chemical:	potassium chloride	CAS No.: 7447-40	-7
TSCA Inventory:	listed Inventory: KE-29086 2600 mg/kg		-
Chemical: TSCA Inventory: Korea Exist.Chem.	<i>Triton® X-114</i> listed Inventory: KE-33567	CAS No.: 9036-19	-5
Chemical: TSCA Inventory: Korea Exist.Chem.	<i>chemicals/mixture</i> < 1% all listed, <1% Inventory: listed	CAS No.: -	
100 mL EQU-EF			
Chemical: TSCA Inventory: ACGIH: Exposure Routes:	<i>ethanol</i> listed Californi 1000 ppm inhalation, ingestion, skin and/	CAS No.: 64-17-50 a Proposition 65 List: not listed	3
Australia NICNAS: Japan CSCL/PRTF Japan ISHL: South Korea TCC/ Korea Exist.Chem. LD50 <sub>orl rat</sub> : LC_LoWint gpg: LC_LoWort hmn : LC50 <sub>ihl</sub> mouse : LC50 <sub>ihl</sub> mouse : LD50 <sub>orl m</sub> ouse : TRGS 905 (DE):	irritation eyes, skin, nose; head nia; reproductive, teratogenic not listed C R: not listed, Japan PDSCL: not li listed ≥0,1%/≥0,1%, Article 57- a. not listed Inventory: KE-13217 6200 mg/kg 21.9 g/m³ 1400 mg/kg [4h] 39 g/m³ [10h] 20 g/m³ 20 000 mg/kg 3450 mg/kg K5, M5, R <sub>F</sub> C	2 (SDS required)	stion), narcosis; cough;
Chemical: TSCA Inventory: Korea Exist.Chem. LD50 <sub>orl rat</sub> :	potassium chloride listed Inventory: KE-29086 2600 mg/kg	CAS No.: 7447-40	-7
Chemical: TSCA Inventory: Korea Exist.Chem.	<i>chemicals/mixture</i> < 1% all listed, <1% Inventory: listed	CAS No.: -	
<b>100 mL LYS-EF</b> Chemical: TSCA Inventory: Exposure Routes: Target Organs: Symptoms: Japan CSCL/PRTF	inhalation, ingestion, skin and/ Eyes, skin, respiratory system -		-2d www.mn-ne
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1 milling date: 12.00.2021		.2021	
Japan ISHL:	listed ≥1,0%/≥1,0% SDS required		
Korea Exist.Chem LD50 <sub>orl rat</sub> :	n.Inventory: KE-31487 [< 1%] > 50 g/kg		
LD50 <sub>drm rbt</sub> :	not applicable		
LD50 <sub>orl mus</sub> :	[< 1%] > 4 g/kg		
Chemical:	dodecyl sulfate, sodium salt	CAS No.: 151-21-3	
TSCA Inventory: Australia NICNAS		oposition 65 List: not listed	
Japan CSCL/PRT		da CEPA 1999: DSL yes cal Substance, Japan PDSCL: not listed	
Japan ISHL:	not listed	· •	
South Korea TCC Korea Exist Chem	CA: not listed m.Inventory: KE-21884		
LD50 <sub>orl rat</sub> :	1288 mg/kg		
LC50 <sub>inh rat</sub> :	3900 <sub>1h</sub> mg/m <sup>3</sup>		
LD50 <sub>drm rbt</sub> :	10 g/kg		
Chemical: TSCA Inventory:	<i>indicator dye(s)</i> all listed. <1%	CAS No.: -	
100 mL NEU-EF			
Chemical:	acetate buffer solution	CAS No.: -	
TSCA Inventory: Korea Exist.Chem	all listed m.Inventory: listed		
	······································		
100 mL RES-EF			
Chemical: TSCA Inventory:	chemicals/mixture < 1% all listed, <1%	CAS No.: -	
	m.Inventory: listed		
0 6 400 mg PNa	• / )		
0.6-100 mg RNas Chemical:	SE A (IYO) RNase	CAS No.: 9001-99-4	
TSCA Inventory:		CAG NO 3001-33-4	
Japan CSCL/PRT	TR: not listed		
Japan ISHL: Korea Exist Chem	not listed m.Inventory: KE-30341		
LD50intraperitonaeal			
Acute Effects: Cau	ause after impairments of health when ingested i		
	May cause sensitization by skin contact, also in r athing difficulties if inhaled.	repeated contact of small amounts. May cause alle	rgy or astnma
125 mL TE-EF			
Chemical:	chemicals/mixture < 1%	CAS No.: -	
TSCA Inventory: Korea Exist.Chem			
100 mL WASH-EI Chemical:	<b>F</b> ethanol	CAS No.: 64-17-5d	
TSCA Inventory:		oposition 65 List: not listed	
ACGIH:	1000 ppm	· · · · · · · · · · · · · · · · · · ·	
Exposure Routes: Target Organs:	s: inhalation, ingestion, skin and/or ey Eyes, skin, respiratory system, cent	/e contact tral nervous system, liver, blood, reproductive syste	em
Symptoms:	irritation eyes, skin, nose; headache	e, drowsiness, lassitude (weakness, exhaustion), n	
liver damage; ane Australia NICNAS	emia; reproductive, teratogenic S: not listed Cana	da CEPA 1999: DSL yes	
Japan CSCL/PRT		JA CEPA 1999. DOL YES	
Japan ISHL:	listed ≥0,1%/≥0,1%, Article 57-2 (SI	DS required)	
South Korea TCC.	CA: not listed		www.mn-ne
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REF: 740430			ucleoBond 96 Xtra EF (1x96) ate of issue: 17.02.2021		Page: 1
Printing date:	12.05.2021	i			
	Kares Evist Cham Invento	VE 19917			
	Korea Exist.Chem.Invento	ry: KE-13217 6200 mg/kg			
	LD50 <sub>orl rat</sub> : LC_Low <sub>ihl gpg</sub> :	6200 mg/kg 21.9 g/m <sup>3</sup>			
	LC_LOW <sub>INI</sub> gpg : 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>			
	LD50drm rbt :	20 000 mg/kg			
	LD50 <sub>oral mouse</sub> :	3450 mg/kg			
	TRGS 905 (DE):	K5, M5, R <sub>F</sub> C			
	Chemical: pota TSCA Inventory:	ssium chloride listed		CAS No.: 7447-40-7	
	Korea Exist.Chem.Invento				
	LD50 <sub>orl rat</sub> :	2600 mg/kg			
		nicals/mixture < 1%		CAS No.: -	
	TSCA Inventory:	all listed, <1%			
	Korea Exist.Chem.Invento	ry: listea			
30	mL H <sub>2</sub> O-EF				
50				CAS No.: 7732-18-5	
	Chemical: wate TSCA Inventory:	er listed		CAS INU 1132-10-0	
	Korea Exist.Chem.Invento				
	xicity lowing information is vali	d for pure substanc	es.		
	50 mL H <sub>2</sub> O for 80% EtO	-			
	a. <sup>-</sup>	water		CAS No.: 7732-18-5	
	60 mL ELU-EF				
		2-propanol		CAS No.: 67-63-0	
	PNEC (fresh water) : PNEC = Predicted No Effect		9 mg/L	••••	
	$LC50_{fish/96h}$ :		mg/L		
	EC50daphnia/48h	13.3	nig/∟ α/l		
	IC50 <sub>scenedesmus</sub> quadri		0 mg/L		
	EC10pseudomonas putita	a/16h : EC5:	1050 mg/L		
	Water hazard class (I	DE): 1	WGK No.: 0135		
	Dispersion coefficient Storage class (VCI):	(octanol-water): 0.05 3			
		potassium chloride		CAS No.: 7447-40-7	
	Water hazard class ([			••••	
	Storage class (VCI):	, 12-13	3		
			107		
		chemicals/mixture <	1%	CAS No.: -	
	Water hazard class ([ Storage class (VCI):	DE): 1 12-13	3		
	200 mL ENDO-EF				
		ethanol		CAS No.: 64-17-5d	
	PNEC (fresh water) : PNEC = Predicted No Effect		mg/L		
	PNEC = Predicted No Effect		0		
	LC50daphnia magna/48h				
	LC50pimephales promela		15.1 g/L		
	LC50 <sub>leuciscus idus/96h</sub> :		8.14 g/L		
	LC50 <sub>fish/96h</sub> :	13 g/			
	EC50 <sub>daphnia/48h</sub> :	9.5-1	4.2 g/L		
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REF: 740430.1		NucleoBond 96 Xtra EF (1x96)		Page: 18/2
Printing date: 12.05	.2021	Date of issue: 17.02.2021		
	IC50scenedesmus quadricauda/72h	[7d] 5000 mg/L		
	EC10 <sub>pseudomonas</sub> putita/16h	[EC5] 6500 mg/L		
	Water hazard class (DE): Dispersion coefficient <sub>(octanol-water)</sub>	1 WGK No.: 0096 : -0.31		
	Storage class (VCI):	3		
	<b>C ( )</b>			
	Chemical: potassium cl Water hazard class (DE):	hloride 1	CAS No.: 7447-40-7	
	Storage class (VCI):	12-13		
	Chemical: Triton® X-11	14	CAS No.: 9036-19-5	
		sting effects. Avoid contact of substance/mixture to en		
		e labelled with P phrases until 125 mL (EU 1272/2008	Annex I - 1.5.2).	
	Water hazard class (DE): Storage class (VCI):	1 12-13		
	Storage class (VCI).	12-15		
	Chemical: chemicals/m		CAS No.: -	
	Water hazard class (DE):	1		
	Storage class (VCI):	12-13		
100	mL EQU-EF			
	Chemical: ethanol		CAS No.: 64-17-5d	
	PNEC(fresh water) : PNEC = Predicted No Effected Concentrati	0.96 mg/L		
	LC50daphnia magna/48h :	>100 g/L 13.4-15.1 g/L		
	LC50pimephales promelas/96h : LC50leuciscus idus/96h :	[48h] 8.14 g/L		
	LC50fish/96h :	13 g/L		
	EC50 <sub>daphnia/48h</sub> :	9.3-14.2 g/L		
	IC50 <sub>scenedesmus</sub> quadricauda/72h	[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 cl		CAS No.: 7447-40-7	
	Water hazard class (DE):	1		
	Storage class (VCI):	12-13		
	Chemical: chemicals/m	ixture < 1%	CAS No.: -	
	Water hazard class (DE):	1		
	Storage class (VCI):	12-13		
100	mL LYS-EF			
	Chemical: sodium hydr	oxide solution	CAS No.: 1310-73-2d	
	LC50 <sub>leuciscus</sub> idus/96h :	35-189 mg/L		
	LC50 <sub>fish/96h</sub> :	45.4 mg/L		
	EC50 <sub>daphnia</sub> /48h	>100 mg/L		
	Water hazard class (DE):	nwg WGK No.: 0142		
	Storage class (VCI):	12-13		
		ate, sodium salt	CAS No.: 151-21-3	
	LC50daphnia magna/48h	6.3 mg/L		
	LC50 <sub>fish/96h</sub> :	1.31-22.5 mg/L		
	Water hazard class (DE):	2		
	Dispersion coefficient <sub>(octanol-water)</sub> Storage class (VCI):	: 1.6 12-13		
	Chemical: indicator dye	(c)	CAS No.: -	
	Storage class (VCI):	12-13		
400				
100	mL NEU-EF Chemical: acetate buffe	ar solution	CAS No.: -	
			UNU	
	Storage class (VCI):	12		



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REF: 74	0430.1 date: 12.05.2021	NucleoBond 96 Xtra EF (1x96) Date of issue: 17.02.2021	Page: 19/2
T Tintang .		Date 0113300. 11.02.2021	
	100 mL RES-EF Chemical: chemicals/mix Water hazard class (DE): Storage class (VCI):	xture < 1% 1 12-13	CAS No.: -
	<i>2 ( )</i>		
	0.6-100 mg RNase A (lyo) Chemical: RNase Water hazard class (DE): Storage class (VCI):	1 13	CAS No.: 9001-99-4
	125 mL TE-EF		
	Chemical: chemicals/mix Water hazard class (DE): Storage class (VCI):	xture < 1% 1 12-13	CAS No.: -
	<b>100 mL WASH-EF</b> Chemical: ethanol PNEC(fresh water) : PNEC = Predicted No Effected Concentratio	0.96 mg/L n	CAS No.: 64-17-5d
	LC50daphnia magna/48h : LC50pimephales promelas/96h : LC50leuciscus idus/96h : LC50fish/96h : EC50daphnia/48h : IC50scenedesmus quadricauda/72h : EC10pseudomonas putita/16h : Water hazard class (DE): Dispersion coefficient (octanol-water) :	>100 g/L 13.4-15.1 g/L [48h] 8.14 g/L 13 g/L 9.3-14.2 g/L [7d] 5000 mg/L [EC5] 6500 mg/L 1 WGK No.: 0096 -0.31	
	Storage class (VCI):	3	
	Chemical: potassium ch Water hazard class (DE): Storage class (VCI):	loride 1 12-13	CAS No.: 7447-40-7
	Chemical: chemicals/mix Water hazard class (DE): Storage class (VCI):	xture < 1% 1 12-13	CAS No.: -
	<b>30 mL H</b> <sub>2</sub> <b>O-EF</b> Chemical: water		CAS No.: 7732-18-5
2.2	Persistence and degradability not necessary		
2.3	Bioaccumulative potential not necessary		
2.4	Mobility in soil not necessary		
2.5	Results of PBT and vPvB assessing no data available	ment	
2.6	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.



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### **SECTION 14: Transport information**

14.1 UN number: 14.3 Class: Road transport		2 UN proper shipping na 4 Packing group: III	ame: Flammable liquid, n.o.s. (2-propanol mixture)
Classification code:	F1		
Limited Quantity:	5 L	Tunnel restriction code	e: E
Excepted Quantity: Air transport	E 1	Special instructions:	640E
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

#### 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 / Gerantstoffverordnung -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

#### List of H and P phrases 16.1

#### 16.1.1 List of relevant H phrases

	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.		
16.1.2	List of relevant P phrases			
	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		

or preatning.

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.



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#### 16.4 **Further information**

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#### 16.5 Sources of key data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS Regulation 487/2013/EU, 4th adaptation of CLP regulation to technical and scientific progress Regulation 669/2018/EU, 4th adaptation of CLP regulation to technical and scientific progress Regulation 1480/2018/EU, 4th adaptation of CLP regulation to technical and scientific progress TRGS 900, German engineering rules governing limits in air at work, updated 03/2019

SUVA .CH, Limits in air at work 2009, revised on 01.2009

TRGS 907, German engineering rules governing listing of substances and causes of sensitizations, updated November 2011 Directive 1999/92/EC Minimum requirements for improving the safety and health protection of workers at risk from potentially explosive

atmospheres

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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