MACHEREY-NAGEI



Safety Data Sheet

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

REF: 740420.10	NucleoBond Xtra Midi EF (10)	Page: 1/22
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 740420.10 NucleoBond Xtra Midi 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 60 mL ELU-EF 2 x 200 mL ENDO-EF 1 x 200 mL EQU-EF 1 x 60 mL FIL-EF 1 x 100 mL LYS-EF 1 x 100 mL NEU-EF 1 x 100 mL RES-EF 1 x 0.6-100 mg RNase A (lyo) 1 x 30 mL TE-EF 1 x 200 mL WASH-EF 1 x 30 mL H₂ O-EF 1 x 9 mL H₂O-EF (for 70% ethanol)

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

Classification of the complete product 2.0



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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2.1 Classification of the substance or mixture

60 mL ELU-EF

		A A
		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
200	mL EQU-EF	
		•
		GHS02
	Signal word	WARNING
	Hazard identification	Hazard classes/categories
	H226 H412	Flam. Liq. 3 Aquatic Chronic 3
60 ı	mL FIL-EF	
	Signal word	Do not need labelling as hazardous -
	No hazard class	
100	mL LYS-EF	
		\checkmark
		GHS07
	Signal word	WARNING
	Hazard identification	Hazard classes/categories
	H315 H319	Skin Irrit. 2 Eye Irrit. 2

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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	
30 mL TE-EF		
Signal word	Do not need labelling as hazardous -	
No hazard class		
200 mL WASH-EF		
	GHS02	
Signal word	WARNING	
Hazard identification	Hazard classes/categories	
H226	Flam. Liq. 3	
30 mL H ₂ O-EF		
Signal word	Do not need labelling as hazardous -	
No hazard class		
9 mL H ₂ O-EF (for 70% ethar	nol)	
Signal word	Do not need labelling as hazardous -	
No hazard class		

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

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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.

60 mL ELU-EF



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.

200 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.

60 mL FIL-EF

Do not need labelling as hazardous Signal word: -

100 mL LYS-EF

GHS07 Signal word: WARNING

100 mL NEU-EF

Do not need labelling as hazardous

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Signal word: -

100 mL RES-EF

Do not need labelling as hazardous Signal word: -

0.6-100 mg RNase A (lyo)



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: -

200 mL WASH-EF



Signal word: WARNING

H226 Flammable liquid and vapour.

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

30 mL H₂ O-EF

Do not need labelling as hazardous Signal word: -

9 mL H₂ O-EF (for 70% ethanol)

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. not applicable DDT.

101.	not applicable
vPvB:	not applicable



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Other hazards

SECTION 3: Composition/information on ingredients

3.1 Substances or 3.2 Mixtures

60 mL E				
	Chemical: 2-prop Classification:			CAS No.: 67-63-0
	Formula:	H225, Flam. Liq. 2, H319, Eye Irrit. C ₃ H ₈ O	2, 1330, 5101 5E 3	
	Pseudonym:	isopropanol, IPA, propan-2-ol		
	TSCA Inventory:	listed		
	REACH Reg. No.:	01-2119457558-25-XXXX		
	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):	H226, Flam. Liq. 3, H319, Eye Irrit.	2	
	Chemical: potass Classification:	sium chloride		CAS No.: 7447-40-7
	Formula:	No criteria for classification or naming of che KCI	emical not required.	
	TSCA Inventory:	listed		
	REACH Reg. No.:	01-2119539416-36-xxxx		
	EC No.:	231-211-8		
	RTECS:	TS8050000	MFCD:	00011360
	KE No.:	KE-29086 1 - <10 %		
	Concentration: acc. CLP (GHS):	The criteria for classification are not fulfilled.		
		The chieffa for classification are not ruinled.		
		cals/mixture < 1%		CAS No.: -
	Classification:	No criteria for classification or naming of che	emical not required.	
	TSCA Inventory: KE No.:	all listed, <1% listed		
	Concentration:	0.1 - <1 %		
	acc. CLP (GHS):	The criteria for classification are not fulfilled.		
200 mL	ENDO-EF			
		o/ (diluted < 20 %)		CAS No.: 64-17-5d
	(dena Classification:	tured with 1%IPA/1%MEK, acc.2016 H225, Flam. Lig. 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: KE No.:	KQ6300000 KE-13217	MFCD:	00003568
	Concentration:	5 - <20 %		
	acc. CLP (GHS):	H226, Flam. Lig. 3		
		sium chloride		CAS No.: 7447-40-7
	Classification: Formula:	No criteria for classification or naming of che KCI	emical not required.	
	TSCA Inventory:	listed		
	REACH Reg. No.:	01-2119539416-36-xxxx		
	EC No.:	231-211-8		
	RTECS:	TS8050000	MFCD:	00011360
	KE No.:	KE-29086 1 - <10 %		
	Concentration: acc. CLP (GHS):			
	acc. OLI (0110).	The criteria for classification are not fulfilled.		



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Printing date: 12.05.2021		Date of issue:	17.02.2021		
		n® X-114		CAS No.: 9036-19-5	
	sification:		15, Skin Irrit. 2, H318, Eye	e Dam. 1, H410, Aquatic Chronic 1	
Form	udonym:	C_{30} H ₅₄ O ₉ Poly(oxy-1.2-ethanediyl) al	nha _[(1 1 3 3_tetramethyl	butyl)phenyl]omegahydroxy-	
	A Inventory:	listed	plia[(1,1,3,3-tetrametry)	butyr)prienyijomeganyuroxy-	
	C listed:	listed			
EC N		232-658-1			
RTE		RI0720000			
KE N		KE-33567			
	centration: CLP (GHS):	0.25 - <2.5 % H412, Aquatic Chronic 3			
Cher	mical: <i>chem</i>	icals/mixture < 1%		CAS No.: -	
	sification:	No criteria for classification or nami	ng of chemical not required	0/10/110	
	A Inventory:	all listed, <1%	ng or onormour not roquirour		
KEN	lo.:	listed			
	centration:	0.1 - <1 %			
acc.	CLP (GHS):	The criteria for classification are no	t fulfilled.		
200 mL EQU-					
Cher		o/ (diluted < 20 %) atured with 1%IPA/1%MEK, ac	c.2016/1867/EU)	CAS No.: 64-17-5d	
•	sification:	H225, Flam. Liq. 2			
Form		$C_2 H_6 O; C_2 H_5 OH$,		
	udonym:	ethyl alcohol, methylated sp	irit		
	A Inventory:	listed 01-2119457610-43-xxxx			
EC N	CH Reg. No.:	200-578-6	Indice No.:	603-002-00-5	
RTE		KQ6300000	MFCD:	00003568	
KEN		KE-13217			
Cond	centration:	5 - <20 %			
acc.	CLP (GHS):	H226, Flam. Liq. 3			
		sium chloride		CAS No.: 7447-40-7	
	sification:	No criteria for classification or nami	ng of chemical not required.		
Form		KCI			
	A Inventory:	listed			
EC N	CH Reg. No.:	01-2119539416-36-xxxx 231-211-8			
RTE		TS8050000	MFCD:	00011360	
KEN		KE-29086		00011000	
	centration:	1 - <10 %			
	CLP (GHS):	The criteria for classification are no	t fulfilled.		
		n® X-114		CAS No.: 9036-19-5	
	sification:		15, Skin Irrit. 2, H318, Eye	e Dam. 1, H410, Aquatic Chronic 1	
Form	iula: Jdonym:	C ₃₀ H ₅₄ O ₉ Poly(oxy-1 2-ethanediyl) al	nha -[(1 1 3 3-tetramethyl	butyl)phenyl]omegahydroxy-	
	A Inventory:	listed	pna[(i, i, J, J-tetrametriy)	outynphenyijomeganyuloxy-	
	C listed:	listed			
ECN		232-658-1			
RTE	CS:	RI0720000			
KEN		KE-33567			
	centration: CLP (GHS):	0.25 - <2.5 % H412, Aquatic Chronic 3			
Cher	mical: <i>chem</i>	icals/mixture < 1%		CAS No.: -	
	sification:	No criteria for classification or nami	ng of chemical not required.		
	A Inventory:	all listed, <1%	-		
KE N		listed			
		0.4 .4.0/			
	centration: CLP (GHS):	0.1 - <1 % The criteria for classification are no			

60 mL FIL-EF



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	Chemical: potas	sium chloride		CAS No.: 7447-40-7
	Classification:	No criteria for classification or naming	n of chemical not required	CAS NO.: 7447-40-7
	Formula:	KCI	y or orionnour not required.	
	TSCA Inventory:	listed		
	REACH Reg. No.:	01-2119539416-36-xxxx		
	EC No.: RTECS:	231-211-8 TS8050000	MFCD:	00011360
	KTECS. KE No.:	KE-29086	MFCD.	00011300
	Concentration:	1 - <10 %		
	acc. CLP (GHS):	The criteria for classification are not f	ulfilled.	
	Chemical: chem	icals/mixture < 1%		CAS No.: -
	Classification:	No criteria for classification or naming	n of chemical not required	040 110=
	TSCA Inventory:	all listed, <1%	g or chemical not required.	
	KE No.:	listed		
	Concentration:	0.1 - <1 %		
	acc. CLP (GHS):	The criteria for classification are not f	ulfilled.	
100 ml	LYS-EF			
		m hydroxide solution (diluted < 2	2 %)	CAS No.: 1310-73-2d
	Classification:	H314, Skin Corr. 1B	,	
	Formula:	NaOH•H ₂ O		
	Pseudonym:	diluted soda lye		
	TSCA Inventory: REACH Reg. No.:	listed 01-2119457892-27-xxxx		
	EC No.:	215-185-5	Indice No.:	011-002-00-6
	RTECS:	WB4900000		0012.000
	KE No.:	KE-31487		
	Concentration:	0.5 - <1 %	lucit 0	
	acc. CLP (GHS):	H315, Skin Irrit. 2, H319, Eye	Irrit. 2	
	Chemical: dodeo	cyl sulfate, sodium salt		CAS No.: 151-21-3
	Classification:	H228, Flam. Sol. 1, H302, Ac		in Irrit. 2, H318, Eye Dam. 1, H332, Acute
	Classification: Tox. 4 inh., H335, S	H228, Flam. Sol. 1, H302, Ac STOT SE 3, H412, Aquatic Chror		in Irrit. 2, H318, Eye Dam. 1, H332, Acute
	Classification: Tox. 4 inh., H335, S Formula:	H228, Flam. Sol. 1, H302, Ac TOT SE 3, H412, Aquatic Chror C ₁₂ H ₂₅ NaO ₄ S	nic 3	
	Classification: Tox. 4 inh., H335, S Formula: Pseudonym:	H228, Flam. Sol. 1, H302, Ac TOT SE 3, H412, Aquatic Chror C ₁₂ H ₂₅ NaO ₄ S sodium lauryl sulfate, sulfuric	nic 3	
	Classification: Tox. 4 inh., H335, S Formula: Pseudonym: TSCA Inventory:	H228, Flam. Sol. 1, H302, Ac TOT SE 3, H412, Aquatic Chror C ₁₂ H ₂₅ NaO ₄ S	nic 3	
	Classification: Tox. 4 inh., H335, S Formula: Pseudonym:	H228, Flam. Sol. 1, H302, Ac STOT SE 3, H412, Aquatic Chror C_{12} H ₂₅ NaO ₄ S sodium lauryl sulfate, sulfuric listed	nic 3	
	Classification: Tox. 4 inh., H335, S Formula: Pseudonym: TSCA Inventory: REACH Reg. No.: EC No.: RTECS:	H228, Flam. Sol. 1, H302, Ac TOT SE 3, H412, Aquatic Chror C ₁₂ H ₂₅ NaO ₄ S sodium lauryl sulfate, sulfuric listed 01-2119489461-32-xxxx 205-788-1 WT1050000	nic 3	
	Classification: Tox. 4 inh., H335, S Formula: Pseudonym: TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.:	H228, Flam. Sol. 1, H302, Ac TOT SE 3, H412, Aquatic Chror C ₁₂ H ₂₅ NaO ₄ S sodium lauryl sulfate, sulfuric listed 01-2119489461-32-xxxx 205-788-1 WT1050000 KE-21884	nic 3 acid monododecyl ester	sodium salt
	Classification: Tox. 4 inh., H335, S Formula: Pseudonym: TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration:	H228, Flam. Sol. 1, H302, Ac TOT SE 3, H412, Aquatic Chror C ₁₂ H ₂₅ NaO ₄ S sodium lauryl sulfate, sulfuric listed 01-2119489461-32-xxxx 205-788-1 WT1050000 KE-21884 0.1 - <1 %	nic 3 acid monododecyl ester MFCD:	sodium salt
	Classification: Tox. 4 inh., H335, S Formula: Pseudonym: TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS):	H228, Flam. Sol. 1, H302, Ac TOT SE 3, H412, Aquatic Chror C_{12} H ₂₅ NaO ₄ S sodium lauryl sulfate, sulfuric listed 01-2119489461-32-xxxx 205-788-1 WT1050000 KE-21884 0.1 - <1 % The criteria for classification are not f	nic 3 acid monododecyl ester MFCD:	sodium salt
	Classification: Tox. 4 inh., H335, S Formula: Pseudonym: TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS): Chemical: <i>indica</i>	H228, Flam. Sol. 1, H302, Ac TOT SE 3, H412, Aquatic Chror C_{12} H ₂₅ NaO ₄ S sodium lauryl sulfate, sulfuric listed 01-2119489461-32-xxxx 205-788-1 WT1050000 KE-21884 0.1 - <1 % The criteria for classification are not f	nic 3 acid monododecyl ester MFCD:	sodium salt
	Classification: Tox. 4 inh., H335, S Formula: Pseudonym: TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS): Chemical: <i>indica</i> Classification:	H228, Flam. Sol. 1, H302, Ac TOT SE 3, H412, Aquatic Chror C_{12} H ₂₅ NaO ₄ S sodium lauryl sulfate, sulfuric listed 01-2119489461-32-xxxx 205-788-1 WT1050000 KE-21884 0.1 - <1 % The criteria for classification are not f ator dye(s) No criteria for classification or naming	nic 3 acid monododecyl ester MFCD: ulfilled.	sodium salt 00036175
	Classification: Tox. 4 inh., H335, S Formula: Pseudonym: TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS): Chemical: <i>indica</i> Classification: TSCA Inventory:	H228, Flam. Sol. 1, H302, Ac TOT SE 3, H412, Aquatic Chror C ₁₂ H ₂₅ NaO ₄ S sodium lauryl sulfate, sulfuric listed 01-2119489461-32-xxxx 205-788-1 WT1050000 KE-21884 0.1 - <1 % The criteria for classification are not f ator dye(s) No criteria for classification or naming all listed, <1%	nic 3 acid monododecyl ester MFCD: ulfilled.	sodium salt 00036175
	Classification: Tox. 4 inh., H335, S Formula: Pseudonym: TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS): Chemical: <i>indica</i> Classification: TSCA Inventory: Concentration:	H228, Flam. Sol. 1, H302, Ac TOT SE 3, H412, Aquatic Chror C_{12} H ₂₅ NaO ₄ S sodium lauryl sulfate, sulfuric listed 01-2119489461-32-xxxx 205-788-1 WT1050000 KE-21884 0.1 - <1 % The criteria for classification are not f ator dye(s) No criteria for classification or naming all listed, <1% < 0.10 %	nic 3 acid monododecyl ester MFCD: ulfilled. g of chemical not required.	sodium salt 00036175
	Classification: Tox. 4 inh., H335, S Formula: Pseudonym: TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS): Chemical: <i>indica</i> Classification: TSCA Inventory:	H228, Flam. Sol. 1, H302, Ac TOT SE 3, H412, Aquatic Chror C ₁₂ H ₂₅ NaO ₄ S sodium lauryl sulfate, sulfuric listed 01-2119489461-32-xxxx 205-788-1 WT1050000 KE-21884 0.1 - <1 % The criteria for classification are not f ator dye(s) No criteria for classification or naming all listed, <1%	nic 3 acid monododecyl ester MFCD: ulfilled. g of chemical not required.	sodium salt 00036175
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100 ml	Classification: Tox. 4 inh., H335, S Formula: Pseudonym: TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS): Chemical: <i>indica</i> Classification: TSCA Inventory: Concentration: acc. CLP (GHS):	H228, Flam. Sol. 1, H302, Ac TOT SE 3, H412, Aquatic Chror C ₁₂ H ₂₅ NaO ₄ S sodium lauryl sulfate, sulfuric listed 01-2119489461-32-xxxx 205-788-1 WT1050000 KE-21884 0.1 - <1 % The criteria for classification are not f ator dye(s) No criteria for classification or naming all listed, <1% < 0.10 % The criteria for classification are not f the buffer solution No criteria for classification or naming	nic 3 acid monododecyl ester MFCD: ulfilled. g of chemical not required. ulfilled.	sodium salt 00036175 CAS No.: -
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100 ml	Classification: Tox. 4 inh., H335, S Formula: Pseudonym: TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS): Chemical: <i>indica</i> Classification: TSCA Inventory: Concentration: acc. CLP (GHS):	H228, Flam. Sol. 1, H302, Ac TOT SE 3, H412, Aquatic Chror C ₁₂ H ₂₅ NaO ₄ S sodium lauryl sulfate, sulfuric listed 01-2119489461-32-xxxx 205-788-1 WT1050000 KE-21884 0.1 - <1 % The criteria for classification are not f ator dye(s) No criteria for classification or naming all listed, <1% < 0.10 % The criteria for classification are not f the buffer solution No criteria for classification or naming	nic 3 acid monododecyl ester MFCD: ulfilled. g of chemical not required. ulfilled.	sodium salt 00036175 CAS No.: -
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100 ml	Classification: Tox. 4 inh., H335, S Formula: Pseudonym: TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS): Chemical: <i>indica</i> Classification: TSCA Inventory: Concentration: acc. CLP (GHS):	H228, Flam. Sol. 1, H302, Ac TOT SE 3, H412, Aquatic Chror C ₁₂ H ₂₅ NaO ₄ S sodium lauryl sulfate, sulfuric listed 01-2119489461-32-xxxx 205-788-1 WT1050000 KE-21884 0.1 - <1 % The criteria for classification are not f ator dye(s) No criteria for classification or naming all listed, <1% < 0.10 % The criteria for classification are not f the buffer solution No criteria for classification or naming CH ₃ COOH/K/Na•H ₂ O all listed listed	nic 3 acid monododecyl ester MFCD: ulfilled. g of chemical not required. ulfilled.	sodium salt 00036175 CAS No.: -
	Classification: Tox. 4 inh., H335, S Formula: Pseudonym: TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS): Chemical: <i>indica</i> Classification: TSCA Inventory: Concentration: acc. CLP (GHS): NEU-EF Chemical: <i>aceta</i> Classification: Formula: TSCA Inventory: KE No.: Concentration: acc. CLP (GHS):	H228, Flam. Sol. 1, H302, Ac TOT SE 3, H412, Aquatic Chror C ₁₂ H ₂₅ NaO ₄ S sodium lauryl sulfate, sulfuric listed 01-2119489461-32-xxxx 205-788-1 WT1050000 KE-21884 0.1 - <1 % The criteria for classification are not f ator dye(s) No criteria for classification or naming all listed, <1% < 0.10 % The criteria for classification are not f the buffer solution No criteria for classification or naming all listed, <1% < 0.10 % The criteria for classification or naming CH ₃ COOH/K/Na•H ₂ O all listed listed 25 - <45 %	nic 3 acid monododecyl ester MFCD: ulfilled. g of chemical not required. ulfilled.	sodium salt 00036175 CAS No.: -
	Classification: Tox. 4 inh., H335, S Formula: Pseudonym: TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS): Chemical: <i>indica</i> Classification: TSCA Inventory: Concentration: acc. CLP (GHS): NEU-EF Chemical: <i>aceta</i> Classification: Formula: TSCA Inventory: KE No.: Concentration: acc. CLP (GHS):	H228, Flam. Sol. 1, H302, Ac TOT SE 3, H412, Aquatic Chror C_{12} H ₂₅ NaO ₄ S sodium lauryl sulfate, sulfuric listed 01-2119489461-32-xxxx 205-788-1 WT1050000 KE-21884 0.1 - <1 % The criteria for classification are not f ator dye(s) No criteria for classification or naming all listed, <1% < 0.10 % The criteria for classification are not f the buffer solution No criteria for classification or naming CH ₃ COOH/K/Na•H ₂ O all listed listed 25 - <45 % The criteria for classification are not f	nic 3 acid monododecyl ester MFCD: ulfilled. g of chemical not required. ulfilled.	sodium salt 00036175 CAS No.: - CAS No.: -
	Classification: Tox. 4 inh., H335, S Formula: Pseudonym: TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS): Chemical: <i>indica</i> Classification: TSCA Inventory: Concentration: acc. CLP (GHS): NEU-EF Chemical: <i>aceta</i> Classification: Formula: TSCA Inventory: KE No.: Concentration: acc. CLP (GHS): RES-EF Chemical: <i>chem</i>	H228, Flam. Sol. 1, H302, Ac TOT SE 3, H412, Aquatic Chror C_{12} H ₂₅ NaO ₄ S sodium lauryl sulfate, sulfuric listed 01-2119489461-32-xxxx 205-788-1 WT1050000 KE-21884 0.1 - <1 % The criteria for classification are not f ator dye(s) No criteria for classification or naming all listed, <1% < 0.10 % The criteria for classification are not f the buffer solution No criteria for classification or naming CH ₃ COOH/K/Na•H ₂ O all listed listed 25 - <45 % The criteria for classification are not f	nic 3 acid monododecyl ester MFCD: ulfilled. g of chemical not required. ulfilled. g of chemical not required.	sodium salt 00036175 CAS No.: -
	Classification: Tox. 4 inh., H335, S Formula: Pseudonym: TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS): Chemical: <i>indica</i> Classification: TSCA Inventory: Concentration: acc. CLP (GHS): NEU-EF Chemical: <i>aceta</i> Classification: Formula: TSCA Inventory: KE No.: Concentration: acc. CLP (GHS): RES-EF Chemical: <i>chem</i> Classification:	H228, Flam. Sol. 1, H302, Ac TOT SE 3, H412, Aquatic Chror C_{12} H ₂₅ NaO ₄ S sodium lauryl sulfate, sulfuric listed 01-2119489461-32-xxxx 205-788-1 WT1050000 KE-21884 0.1 - <1 % The criteria for classification are not f ator dye(s) No criteria for classification or naming all listed, <1% < 0.10 % The criteria for classification or naming CH ₃ COOH/K/Na•H ₂ O all listed listed 25 - <45 % The criteria for classification are not f	nic 3 acid monododecyl ester MFCD: ulfilled. g of chemical not required. ulfilled. g of chemical not required.	sodium salt 00036175 CAS No.: - CAS No.: -
	Classification: Tox. 4 inh., H335, S Formula: Pseudonym: TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS): Chemical: <i>indica</i> Classification: TSCA Inventory: Concentration: acc. CLP (GHS): NEU-EF Chemical: <i>aceta</i> Classification: Formula: TSCA Inventory: KE No.: Concentration: acc. CLP (GHS): RES-EF Chemical: <i>chem</i>	H228, Flam. Sol. 1, H302, Ac TOT SE 3, H412, Aquatic Chror C_{12} H ₂₅ NaO ₄ S sodium lauryl sulfate, sulfuric listed 01-2119489461-32-xxxx 205-788-1 WT1050000 KE-21884 0.1 - <1 % The criteria for classification are not f ator dye(s) No criteria for classification or naming all listed, <1% < 0.10 % The criteria for classification are not f the buffer solution No criteria for classification or naming CH ₃ COOH/K/Na•H ₂ O all listed listed 25 - <45 % The criteria for classification are not f	nic 3 acid monododecyl ester MFCD: ulfilled. g of chemical not required. ulfilled. g of chemical not required.	sodium salt 00036175 CAS No.: - CAS No.: -
	Classification: Tox. 4 inh., H335, S Formula: Pseudonym: TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS): Chemical: <i>indica</i> Classification: TSCA Inventory: Concentration: acc. CLP (GHS): NEU-EF Chemical: <i>aceta</i> Classification: Formula: TSCA Inventory: KE No.: Concentration: acc. CLP (GHS): RES-EF Chemical: <i>chem</i> Classification: TSCA Inventory:	H228, Flam. Sol. 1, H302, Ac TOT SE 3, H412, Aquatic Chror C ₁₂ H ₂₅ NaO ₄ S sodium lauryl sulfate, sulfuric listed 01-2119489461-32-xxxx 205-788-1 WT1050000 KE-21884 0.1 - <1 % The criteria for classification are not f ator dye(s) No criteria for classification or naming all listed, <1% < 0.10 % The criteria for classification or naming CH ₃ COOH/K/Na•H ₂ O all listed listed 25 - <45 % The criteria for classification are not f	nic 3 acid monododecyl ester MFCD: ulfilled. g of chemical not required. ulfilled. g of chemical not required.	sodium salt 00036175 CAS No.: - CAS No.: -

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

REF: 740420.1 Printing date: 1		21	NucleoBond Xt Date of issue:	()		Page: 9/2
Thing date.	12.00.202	<u> </u>	Date of 135de.	11.02.2021		
	0.6-100	mg RNase A (lyo) Chemical: RNase			CAS No.: 9001-99-4	
		Classification:	, H334, Resp. Sens. 1		CAS No.: 9001-99-4	
		Formula:	Enzyme Comm. No. 3.1.27.5	, origin: bovine pancreas (contro	lled population)	
		Pseudonym:	Nuclease, ribo-	0	,	
		TSCA Inventory:	listed			
		EC No.:	232-646-6			
		RTECS: KE No.:	RF0760000 KE-30341			
		Concentration:	90 - <100 %			
		acc. CLP (GHS):	H334, Resp. Sens. 1			
	30 mL T	E-EF				
			cals/mixture < 1%		CAS No.: -	
		Classification:	No criteria for classification or namir	ng of chemical not required.		
		TSCA Inventory:	all listed, <1%			
		KE No.:				
		Concentration:	0.1 - <1 %	6 MW 1		
		acc. CLP (GHS):	The criteria for classification are not	fulfilled.		
	200 mL	WASH-EF Chemical: ethanc	o/ (diluted < 20 %)		CAS No.: 64-17-5d	
			tured with 1%IPA/1%MEK, ac	c 2016/1867/FUI)	CAS NO.: 04-17-50	
		Classification:	H225, Flam. Liq. 2	0.2010/1007/20)		
		Formula:	C ₂ H ₆ O; C ₂ H ₅ OH			
		Pseudonym:	ethyl alcohol, methylated spi	rit		
		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			
		Chemical: potass	ium chloride		CAS No.: 7447-40-7	
		Classification:	No criteria for classification or namir	ng of chemical not required.		
		Formula:	KCI			
		TSCA Inventory:	listed			
		REACH Reg. No.:	01-2119539416-36-xxxx			
		EC No.: RTECS:	231-211-8 TS8050000	MFCD:	00011360	
		KE No.:	KE-29086	NI CD.	60011360	
		Concentration:	1 - <10 %			
		acc. CLP (GHS):	The criteria for classification are not	fulfilled.		
			cals/mixture < 1%		CAS No.: -	
		Classification:	No criteria for classification or namin	ng 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	fulfilled.		
	30 mL H	l ₂ O-EF				
		Chemical: water			CAS No.: 7732-18-5	
		Classification:	No criteria for classification or namir	ng of chemical not required.		
		Formula:	H ₂ O			
		TSCA Inventory:	listed			
		REACH Reg. No.: EC No.:	exempt, Annex IV 231-791-2			
		RTECS:	ZC0110000			
		KE No.:	KE-35400			
		Concentration:	90 - <100 %			
		acc. CLP (GHS):	The criteria for classification are not	fulfilled.		
		. ,				

9 mL H₂ O-EF (for 70% ethanol)



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

REF: 7	40420.10	NucleoBond Xtra Midi EF (10)	Page: 10/22
Printing	g date: 12.05.2021	Date of issue: 17.02.2021	
3.3	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 ₂ 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
5.5		added with water [CAS No. 7732-18-5] to 100%.	
	List of H and P phrases: see	section 16.1	
SECT	ΓΙΟΝ 4: First aid measu	res	
4.1	1 0	easures er zone to fresh air immediately. Ensure quiet, warmth, and . Take to a doctor, in a raised position if there are breathing	
4.1.1	After SKIN Contact Remove contaminated clothing. Rinse the affected skin or mucous membrane thoroughly under running water. (If possible) use soap.		
4.1.2	After EYE Contact		

After contact with the eyes rinse thoroughly under running water with the eyelid wide open with eye washing bottle, eye douche or running water (protect intact eye).

4.1.3 After INHALATION of vapours

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 should be drunk after it has been ingested. ---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

Inform patient respectively further measures and the possibility of long-term damages. ---

SECTION 5: Firefighting measures

5.1 Extinguishing media

Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area. All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used.

5.2 Special hazards arising from the substance or mixture 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.

E-mail: sales-fr@mn-net.com

5.4 Additional information



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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
- 7.2.1 Requirements for stock rooms and containers Keep original product packages tightly closed during handling and storage.

7.3 Specific end use(s)

Product for analytical use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

60 mL ELU-EF Chemical: 2-propanol DNEL: DNEL = Derived No-Effect		CAS No.: 67-63-0
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	y excluded / (Y) certainly excluded
SUVA(CH) MAK value: TRGS 903 (DE):	200 ppm / 500 mg/m³ [Aceton B/b, U/b] 25 mg/L B blood, U urine, a no limitation, b end of exposition or shift	
NIOSH: NIOSH STEL: [TWA] Time-weighted ave	[TWA] 400 ppm / 980 mg/m ³ 500 ppm / 1225 mg/m ³ rage to a reference period of 8 hours, [STEL] Short-term exposure limit rel	lated to a 15-minute period
OSHA:	[TWA] 400 ppm / 980 mg/m³	
Chemical: potassium ch	loride	CAS No.: 7447-40-7
Chemical: chemicals/mix	xture < 1%	CAS No.: -
200 mL ENDO-EF Chemical: ethanol DNEL: DNEL = Derived No-Effec	[derm] 343 mg/kg; [inh] 950 mg/m³ t Level (for workers)	CAS No.: 64-17-5d
PNEC(fresh water) : PNEC = Predicted No Effe	0.96 mg/L ected Concentration	
TRGS 900 (DE):	200 ppm / 380 mg/m³ E/e respirable	
Short-term exposure factor: skin resorptive (H), respi	4 (II), Y ratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely	v excluded / (Y) certainly excluded



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Thing date.	12.00.2021		Date of 1330	5. 17.02.2021		
	SUVA(CH) M NIOSH:		500 ppm / 960 mg/m³ [TWA] 1000 ppm / 1900 mg erage to a reference period of 8 hours	/m ³	-late d to a 45 minute pariod	
	OSHA:	Tillie-weignieu avo	1000 ppm / 1900 mg/m ³		elated to a 13-minute period	
	Chemical:	potassium ch	loride		CAS No.: 7447-40-7	
	Chemical:	Triton® X-114	4		CAS No.: 9036-19-5	
	Chemical:	chemicals/mi.	xture < 1%		CAS No.: -	
	200 mL EQU Chemical: DNEL:	I-EF ethanol	[derm] 343 mg/kg; [inh] 950	ma/m³	CAS No.: 64-17-5d	
	DNEL =		t Level (for workers)	ing/in		
	PNEC _{(fresh wa} PNEC TRGS 900 (E	ater) : = Predicted No Eff DE):	0.96 mg/L ected Concentration 200 ppm / 380 mg/m ³			
	Short-term existin re	xposure factor:	E/e respirable 4 (II), Y		the second of (V) containly evoluted	
	SUVA(CH) M NIOSH:	IAK value:	iratory sensitizable (Sa), skin sensitiz 500 ppm / 960 mg/m ³ [TWA] 1000 ppm / 1900 mg arage to a reference period of 8 hours	/m³		
	OSHA:		1000 ppm / 1900 mg/m³			
	Chemical:	potassium ch	loride		CAS No.: 7447-40-7	
	Chemical:	Triton® X-114	4		CAS No.: 9036-19-5	
	Chemical:	chemicals/mi	xture < 1%		CAS No.: -	
	60 mL FIL-E Chemical:	F potassium ch	loride		CAS No.: 7447-40-7	
	Chemical:	chemicals/mi	xture < 1%		CAS No.: -	
	100 mL LYS Chemical:	-EF sodium hydro	ixide solution		CAS No.: 1310-73-2d	
	Chemical: NIOSH:	dodecyl sulfa	<i>te, sodium salt</i> not listed		CAS No.: 151-21-3	
		Time-weighted ave	arage to a reference period of 8 hours not listed	, [STEL] Short-term exposure limit r	elated to a 15-minute period	
	Chemical:	indicator dye	(s)		CAS No.: -	
	100 mL NEU					
	Chemical:	acetate buffe	r solution		CAS No.: -	
	100 mL RES Chemical:	-EF chemicals/mi	xture < 1%		CAS No.: -	
	0.6-100 mg F Chemical:	RNase A (lyo) RNase			CAS No.: 9001-99-4	
	30 mL TE-EF Chemical:	= chemicals/mi	xture < 1%		CAS No.: -	
	200 mL WAS					
	Chemical: DNEL:	ethanol	[derm] 343 mg/kg; [inh] 950	mg/m³	CAS No.: 64-17-5d	
			t Level (for workers) 0.96 mg/L ected Concentration			
	`PNEC :	= Predicted No Eff	ected Concentration			www.mn-net.



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Printing dat	e: 12.05.2021	Date of issue: 17.02.2021		
	TRGS 900 (DE):	200 ppm / 380 mg/m³ E/e respirable		
	Short-term exposure factor skin resorptive (H), re	or: 4 (II), Y spiratory sensitizable (Sa), skin sensitizable (Sh), teratog	enic (Z) not securely excluded / (Y) certainly exclude	ed
	SUVA(CH) MAK value: NIOSH: [TWA] Time-weighted	500 ppm / 960 mg/m ³ [TWA] 1000 ppm / 1900 mg/m ³ average to a reference period of 8 hours, [STEL] Short-ter	rm exposure limit related to a 15-minute period	
	OSHA:	1000 ppm / 1900 mg/m³		
	Chemical: potassium	chloride	CAS No.: 7447-40-7	
	Chemical: chemicals/	mixture < 1%	CAS No.: -	
	30 mL H ₂ O-EF Chemical: <i>water</i>		CAS No.: 7732-18-5	
	9 mL H ₂ O-EF (for 70% e Chemical: <i>water</i>	ethanol)	CAS No.: 7732-18-5	
G	Exposure controls Good ventilation and extractio evel of cleanliness must be m	n system in the room, floor resistant to chemic aintained at the workplace.	als with floor drainage and washing facilit	ies. The highest
8.2.1	Respiratory protection Use for open access of th	lese substances for example a protection filter	, class A/AX. No additional recommendat	ons.
8.2.2		I 374 (permeation time >30 min - level 2), consistent latex gloves with code E		il (f.ex. from Ansel
8.2.3	Eye protection Yes, safety glasses accor	rding EN 166 with integrated side shields or wi	rap-around protection.	
8.2.4	Skin protection Recommended to avoid o	contamination with these hazards.		
8.2.5	with the skin, eyes and cl	, taking snuff and storage of food in work area othing. Rinse any clothing on which the substa water when stopping work and before eating,	ance has been spilled, and soak it in wate	
SECTIO	N 9: Physical and	chemical properties		

9.1 Information on basic physical and chemical properties

60 mL ELU-EF Appearance: liquid pH: Flash point: Specific gravity:	Colour: colourless 8.5-9.5 30 °C 1.04 g/cm³	Odor: alcoholic
200 mL ENDO-EF Appearance: liquid pH: Flash point: Specific gravity:	Colour: colourless 6-7 39 °C 1.04 g/cm³	Odor: alcoholic
200 mL EQU-EF Appearance: liquid pH: Flash point: Specific gravity:	Colour: colourless 6-7 39 °C 1.04 g/cm³	Odor: alcoholic
60 mL FIL-EF		



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Printing date: 12.05.2021	Date of issue: 17.0	Date of issue: 17.02.2021	
Appearance: liquid pH: Specific gravity:	Colour: colourless 6-7 1.06 g/cm³	Odor: odorless	
100 mL LYS-EF Appearance: liquid pH: Specific gravity:	Colour: blue 13 1.008 g/cm³	Odor: odorless	
100 mL NEU-EF Appearance: liquid pH: Flash point: Specific gravity:	Colour: colourless 4-5 63 °C 1.19 g/cm³	Odor: acetic	
100 mL RES-EF Appearance: liquid pH: Specific gravity:	Colour: colourless 7.5 - 8.5 1.01 g/cm³	Odor: odorless	
0.6-100 mg RNase A (Iyo) Appearance: solid (Iyoph.) Solubility in water:	Colour: colourless 0-100 %	Odor: odorless	
30 mL TE-EF Appearance: liquid pH: Specific gravity:	Colour: colourless 7.2-7.7 1.0 g/cm³	Odor: odorless	
200 mL WASH-EF Appearance: liquid pH: Flash point: Specific gravity:	Colour: colourless 6-7 39 °C 1.04 g/cm³	Odor: alcoholic	
30 mL H ₂ O-EF Appearance: liquid pH: Specific gravity:	Colour: colourless 6-8 1.0 g/cm³	Odor: odorless	
9 mL H ₂ O-EF (for 70% ethan Appearance: liquid pH: Specific gravity:	tol) Colour: colourless 6-8 1.0 g/cm³	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.

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10.4 Co	onditions to avoid		
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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.

60 mL ELU-EF

Chemical:	2-propanol		CAS No.: 67-63-0	
TSCA Inventory:	listed	California Proposition 6	35 List: not listed	
ACGIH:	1230 p	m		
Exposure Routes:	inhalat	on, ingestion, skin and/or eye contact		
Target Organs:	Eyes, s	kin, respiratory system		
Symptoms:	irritatio	eyes, nose, throat; drowsiness, dizzin	ness, headache; dry cracking skin; in animals: narcosis	
Australia NICNAS:		Canada CEPA 1	1999: DSL yes	
Japan CSCL/PRTR:	PAC y	s, Japan PDSCL: -		
Japan ISHL:	listed ≥	,0%/≥0,1%, Article 57-2 (SDS required	ed)	
South Korea TCCA:				
Korea Exist.Chem.Ir	ventory: KE-29	33		
LD50 _{orl rat} :	5045 n	g/kg		
LC_Low _{orl hmn} :	3570 n	j/kg		
LC50 _{ihl rat} :	16 _{4h} g/	1 ³		
LD50 _{drm rbt} :	12.8 g/	g		
TRGS 905 (DE):	R _F C			
Chemical:	potassium chlo	ide	CAS No.: 7447-40-7	
TSCA Inventory:	listed			
Korea Exist.Chem.Ir				
LD50 _{orl rat} :	2600 n	J/kg		
Chemical:	abamiaala/miu	10/	CASNet	
•••••	chemicals/mixt		CAS No.: -	
TSCA Inventory:	all liste	, >170		
Korea Exist.Chem.Ir	ivenitory. listed			

200 mL ENDO-EF

Chemical:	ethanol	CAS No.: 64-17-5d
TSCA Inventory:	listed	California Proposition 65 List: not listed
ACGIH:	1000 ppm	
Exposure Routes:	inhalation, ir	igestion, skin and/or eye contact
Target Organs:	Eyes, skin, r	espiratory system, central nervous system, liver, blood, reproductive system
Symptoms:	,	s, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; cough;
liver damage; anemia;		igenic
Australia NICNAS:	not listed	Canada CEPA 1999: DSL yes
Japan CSCL/PRTR:	,	apan PDSCL: not listed
Japan ISHL:	,	/≥0,1%, Article 57-2 (SDS required)
South Korea TCCA:	not listed	
Korea Exist.Chem.Inv		
LD50 _{orl rat} :	6200 mg/kg	
LC_Low _{ihl gpg} :	21.9 g/m³	
LC_Loworl hmn :	1400 mg/kg	
LC50ihl mouse :	[4h] 39 g/m³	
LC50 _{ihl rat} :	[10h] 20 g/m	
LD50 _{drm rbt} :	20 000 mg/k	9
LD50 _{oral mouse} :	3450 mg/kg	
TRGS 905 (DE):	K5, M5, R _F (2



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EF: 740420.10		Bond Xtra Midi EF (10) Page: 10
inting date: 12.05.2021	Date of	issue: 17.02.2021
Chemical:	potassium chloride	CAS No.: 7447-40-7
TSCA Inventory:	listed	
	nventory: KE-29086	
LD50 _{orl rat} :	2600 mg/kg	
	2000	
Chemical:	Triton® X-114	CAS No.: 9036-19-5
TSCA Inventory:	listed	
	nventory: KE-33567	
Chemical:	chemicals/mixture < 1%	CAS No.: -
TSCA Inventory:	all listed, <1%	
Korea Exist.Chem.I		
200 mL EQU-EF		
Chemical:	ethanol	CAS No.: 64-17-5d
TSCA Inventory:		California Proposition 65 List: not listed
ACGIH:	1000 ppm	
Exposure Routes:	inhalation, ingestion, sk	in and/or eve contact
Target Organs:		system, central nervous system, liver, blood, reproductive system
Symptoms:		e; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; coud
	ia, reproductive, teratogenic	
Australia NICNAS:	not listed	Canada CEPA 1999: DSL yes
Japan CSCL/PRTR	not listed, Japan PDSC	
Japan ISHL:		icle 57-2 (SDS required)
South Korea TCCA		
Korea Exist.Chem.I	nventory: KE-13217	
LD50 _{orl rat} :	6200 mg/kg	
LC_Low _{ihl gpg} :	21.9 g/m ³	
LC Loworl hmn :	1400 mg/kg	
LC50ihl mouse :	[4h] 39 g/m ³	
LC50 _{ihl rat} :	[10h] 20 g/m ³	
LD50 _{drm rbt} :	20 000 mg/kg	
LD50oral mouse	3450 mg/kg	
TRGS 905 (DE):	K5, M5, R _F C	
Chemical:	potassium chloride	CAS No.: 7447-40-7
TSCA Inventory:	listed	
	nventory: KE-29086	
LD50 _{orl rat} :	2600 mg/kg	
	2000 mg/kg	
Chemical:	Triton® X-114	CAS No.: 9036-19-5
TSCA Inventory:	listed	
	nventory: KE-33567	
	,	
Chemical:	chemicals/mixture < 1%	CAS No.: -
TSCA Inventory:	all listed, <1%	
Korea Exist.Chem.I	nventory: listed	
60 mL FIL-EF		
Chemical:	potassium chloride	CAS No.: 7447-40-7
TSCA Inventory:	listed	
	nventory: KE-29086	
LD50 _{orl rat} :	2600 mg/kg	
- · · ·		
Chemical:	chemicals/mixture < 1%	CAS No.: -
TCCA Inventory	all listed, <1%	
TSCA Inventory: Korea Exist.Chem.I		



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REF: 74042				leoBond Xtra M	. ,		Page: 17/22
Printing date	te: 12.05.2021		Date	e of issue: 17.02	2.2021		
1	100 mL LYS-EF						
	Chemical: TSCA Inventory: Exposure Routes: Target Organs:	sodium	n hydroxide solution listed inhalation, ingestion Eyes, skin, respirate	n, skin and/or ey	oposition 65 List: no ye contact	CAS No.: 1310-73-20 ot listed	I
	Symptoms: Japan CSCL/PRTR:		- not listed, Japan PE	DSCL: not listed	1		
	Japan ISHL: Korea Exist.Chem.Inv LD50 _{orl rat} :	ventory:	[< 1%] > 50 g/kg	SDS requirea			
	LD50 _{drm rbt} : LD50 _{orl mus} :		not applicable [< 1%] > 4 g/kg				
	Chemical: TSCA Inventory:	dodecy	/l sulfate, sodium sali listed	California Pr	oposition 65 List: no		
	Australia NICNAS: Japan CSCL/PRTR: Japan ISHL:		not listed		ada CEPA 1999: DS cal Substance, Japa		
	South Korea TCCA: Korea Exist.Chem.Inv LD50 _{orl rat} :		not listed : KE-21884 1288 mg/kg				
	LC50 _{inh rat} : LD50 _{drm rbt} :		3900 _{1h} mg/m³ 10 g/kg				
	Chemical: TSCA Inventory:	indicate	or dye(s) all listed, <1%			CAS No.: -	
1	100 mL NEU-EF						
	Chemical: TSCA Inventory: Korea Exist.Chem.Inv		e buffer solution all listed : listed			CAS No.: -	
1	100 mL RES-EF						
	Chemical: TSCA Inventory: Korea Exist.Chem.Inv		cals/mixture < 1% all listed, <1% : listed			CAS No.: -	
0	0.6-100 mg RNase A						
	Chemical: TSCA Inventory: Japan CSCL/PRTR: Japan ISHL:		listed not listed not listed			CAS No.: 9001-99-4	
	Korea Exist.Chem.Inv LD50intraperitonaeal rat Acute Effects: Cause Chronic Effects: May symptoms or breathir	t : e after im y cause s	392 mg/kg npairments of health sensitization by skin o	when ingested contact, also in	in small quantities. repeated contact of	small amounts. May caus	e allergy or asthma
3	30 mL TE-EF	C					
	Chemical: TSCA Inventory: Korea Exist.Chem.Inv		cals/mixture < 1% all listed, <1% : listed			CAS No.: -	
2	200 mL WASH-EF						
	Chemical: TSCA Inventory: ACGIH:	ethano	listed 1000 ppm		roposition 65 List: no	CAS No.: 64-17-5d ot listed	
	Exposure Routes: Target Organs:		inhalation, ingestior Eyes, skin, respirate			, liver, blood, reproductive	system www.mn-ne
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	0420.10	NucleoBond Xtra Midi EF (10)	Page: 18/2
Printing	date: 12.05.2021	Date of issue: 17.02.2021	
	Symptoms:		ss, lassitude (weakness, exhaustion), narcosis; cough
	liver damage; anemia; re Australia NICNAS:	not listed Canada CEPA 19	
	Japan CSCL/PRTR:	not listed, Japan PDSCL: not listed	555. DOL YES
	Japan ISHL:	listed ≥0,1%/≥0,1%, Article 57-2 (SDS required)
	South Korea TCCA:	not listed	,
	Korea Exist.Chem.Invent		
	LD50orl rat :	6200 mg/kg	
	LC_Low _{ihl gpg} :	21.9 g/m ³	
	LC_Low _{orl hmn} : LC50 _{ihl mouse} :	1400 mg/kg [4h] 39 g/m³	
	LC50 _{ihl rat} :	[10h] 20 g/m ³	
	LD50drm rbt :	20 000 mg/kg	
	LD50oral mouse :	3450 mg/kg	
	TRGS 905 (DE):	K5, M5, R _F C	
	Chemical: pot	assium chloride	CAS No.: 7447-40-7
	TSCA Inventory:	listed	-
	Korea Exist.Chem.Invent	,	
	LD50 _{orl rat} :	2600 mg/kg	
	Chemical: che	micals/mixture < 1%	CAS No.: -
	TSCA Inventory:	all listed, <1%	
	Korea Exist.Chem.Invent	ory: listed	
	30 mL H ₂ O-EF		
	Chemical: wat		CAS No.: 7732-18-5
	TSCA Inventory:	listed	
	Korea Exist.Chem.Invent	5ry: KE-35400	
	0 ml Ha O EE /far 70%	athanal)	
	9 mL H ₂ O-EF (for 70%	-	CAS No : 7722 19 5
	Chemical: wat	er	CAS No.: 7732-18-5
	Chemical: wat TSCA Inventory:	er listed	CAS No.: 7732-18-5
	Chemical: wat	er listed	CAS No.: 7732-18-5
	Chemical: wat TSCA Inventory: Korea Exist.Chem.Invent	er listed ory: KE-35400	CAS No.: 7732-18-5
ECTI	Chemical: wat TSCA Inventory:	er listed ory: KE-35400	CAS No.: 7732-18-5
	Chemical: wat TSCA Inventory: Korea Exist.Chem.Invent	listed ory: KE-35400	CAS No.: 7732-18-5
SECTI 2.1	Chemical: wat TSCA Inventory: Korea Exist.Chem.Invent ON 12: Ecological in Toxicity Following information is val	listed ory: KE-35400	CAS No.: 7732-18-5
	Chemical: wat TSCA Inventory: Korea Exist.Chem.Invent ON 12: Ecological in Toxicity Following information is val 60 mL ELU-EF	isted ory: KE-35400 nformation id for pure substances.	
	Chemical: wat TSCA Inventory: Korea Exist.Chem.Invent OON 12: Ecological in Toxicity Following information is val 60 mL ELU-EF Chemical:	isted ory: KE-35400 nformation id for pure substances. 2-propanol	CAS No.: 7732-18-5 CAS No.: 67-63-0
	Chemical: wat TSCA Inventory: Korea Exist.Chem.Invent ON 12: Ecological in Toxicity Following information is val 60 mL ELU-EF	isted ory: KE-35400 nformation id for pure substances. 2-propanol	
	Chemical: wat TSCA Inventory: Korea Exist.Chem.Invent ON 12: Ecological in Toxicity Following information is val 60 mL ELU-EF Chemical: PNEC (fresh water) : PNEC = Predicted No Effect	isted ory: KE-35400 nformation id for pure substances. 2-propanol	
	Chemical: wat TSCA Inventory: Korea Exist.Chem.Invent ON 12: Ecological in Toxicity Following information is val 60 mL ELU-EF Chemical: PNEC (fresh water) : PNEC = Predicted No Effe LC50fish/96h : EC50daphnia/48h	isted ory: KE-35400 nformation id for pure substances. 2-propanol 140.9 mg/L 1400 mg/L 13.3 g/L	
	Chemical: wat TSCA Inventory: Korea Exist.Chem.Invent ON 12: Ecological in Toxicity Following information is val 60 mL ELU-EF Chemical: PNEC (fresh water) : PNEC = Predicted No Effet LC50fish/96h : EC50daphnia/48h : IC50scenedesmus quad	isted ory: KE-35400 nformation id for pure substances. 2-propanol 2-propanol 140.9 mg/L 13.3 g/L ricauda/72h : >1000 mg/L	
	Chemical: wait TSCA Inventory: Korea Exist.Chem.Invent ON 12: Ecological in Toxicity Following information is val 60 mL ELU-EF Chemical: PNEC (fresh water) : PNEC = Predicted No Effet LC50fish/96h : EC50aphnia/48h : IC50scenedesmus quad EC10pseudomonas puti	er listed ory: KE-35400 nformation id for pure substances. 2-propanol 2-propanol 140.9 mg/L 13.3 g/L ricauda/72h : >1000 mg/L ta/16h : EC5: 1050 mg/L	
	Chemical: wai TSCA Inventory: Korea Exist.Chem.Invent ON 12: Ecological in Toxicity Following information is val 60 mL ELU-EF Chemical: PNEC(fresh water) PNEC = Predicted No Effe LC50fish/96h EC50daphnia/48h IC50scenedesmus quad EC10pseudomonas puti Water hazard class (isted ory: KE-35400 nformation id for pure substances. 2-propanol 140.9 mg/L 13.3 g/L ricauda/72h : > 1000 mg/L 12/16h : EC5: 1050 mg/L DE): 1	
	Chemical: wait TSCA Inventory: Korea Exist.Chem.Invent ON 12: Ecological in Toxicity Following information is val 60 mL ELU-EF Chemical: PNEC (fresh water) : PNEC = Predicted No Effet LC50fish/96h : EC50aphnia/48h : IC50scenedesmus quad EC10pseudomonas puti	isted ory: KE-35400 nformation id for pure substances. 2-propanol 140.9 mg/L 13.3 g/L ricauda/72h : >1000 mg/L ta/16h : EC5: 1050 mg/L DE): 1 WGK No.: 0135 t(octanol-water) : 0.05	
	Chemical: wat TSCA Inventory: Korea Exist.Chem.Invent OON 12: Ecological in Toxicity Following information is val 60 mL ELU-EF Chemical: PNEC(fresh water) PNEC = Predicted No Effe LC50fish/96h EC50daphnia/48h IC50scenedesmus quad EC10pseudomonas puti Water hazard class (Dispersion coefficier	er listed ory: KE-35400 Information id for pure substances. 2-propanol 140.9 mg/L 13.3 g/L ricauda/72h > 1000 mg/L 13.3 g/L ricauda/72h > 1000 mg/L DE): 1 WGK No.: 0135 it(octanol-water): 0.05 3	
	Chemical: wat TSCA Inventory: Korea Exist.Chem.Invent CON 12: Ecological in Toxicity Following information is val 60 mL ELU-EF Chemical: PNEC (fresh water) : PNEC = Predicted No Effe LC50fish/96h : EC50daphnia/48h : IC50scenedesmus quad EC10pseudomonas puti Water hazard class (Dispersion coefficier Storage class (VCI):	er listed ory: KE-35400 nformation id for pure substances. 2-propanol 140.9 mg/L 1400 mg/L 13.3 g/L ricauda/72h >1000 mg/L ta/16h EC5: 1050 mg/L DE): 1 WGK No.: 0135 it(octanol-water): 0.05 3 potassium chloride	CAS No.: 67-63-0
	Chemical: wat TSCA Inventory: Korea Exist.Chem.Invent Con 12: Ecological in Toxicity Following information is val 60 mL ELU-EF Chemical: PNEC (fresh water) : PNEC = Predicted No Effe LC50fish/96h : EC50daphnia/48h : IC50scenedesmus quad EC10pseudomonas puti Water hazard class (Dispersion coefficier Storage class (VCI): Chemical:	er listed ory: KE-35400 nformation id for pure substances. 2-propanol 140.9 mg/L 1400 mg/L 13.3 g/L ricauda/72h >1000 mg/L ta/16h EC5: 1050 mg/L DE): 1 WGK No.: 0135 it(octanol-water): 0.05 3 potassium chloride	CAS No.: 67-63-0
	Chemical: wait TSCA Inventory: Korea Exist.Chem.Invent ON 12: Ecological in Toxicity Following information is val 60 mL ELU-EF Chemical: PNEC (fresh water) : PNEC = Predicted No Effe LC50fish/96h : EC50daphnia/48h : IC50scenedesmus quad EC10pseudomonas puti Water hazard class (Dispersion coefficier Storage class (VCI):	er listed ory: KE-35400 hformation id for pure substances. 2-propanol 2-propanol 140.9 mg/L 13.3 g/L ricauda/72h : >1000 mg/L 13.3 g/L ricauda/72h : >1000 mg/L ta/16h : EC5: 1050 mg/L DE): 1 WGK No.: 0135 it(octanol-water): 0.05 3 potassium chloride DE): 1 12-13	CAS No.: 67-63-0 CAS No.: 7447-40-7
	Chemical: wat TSCA Inventory: Korea Exist.Chem.Invent ON 12: Ecological in Toxicity Following information is val 60 mL ELU-EF Chemical: PNEC (fresh water) : PNEC = Predicted No Efft LC50 daphnia/48h IC50 scenedesmus quad EC10 pseudomonas puti Water hazard class (Dispersion coefficier Storage class (VCI): Chemical: Water hazard class (er listed ory: KE-35400 hformation id for pure substances. 2-propanol 2-propanol 140.9 mg/L 13.3 g/L ricauda/72h: >1000 mg/L ta/16h: EC5: 1050 mg/L DE): 1 WGK No.: 0135 it(octanol-water): 0.05 3 potassium chloride DE): 1 12-13 chemicals/mixture < 1%	CAS No.: 67-63-0

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REF: 740420.1 Printing date: 1			NucleoBond Xtra Midi EF (10) Date of issue: 17.02.2021		Page: 19/22
	200 mL ENDO-EF Chemical: PNEC(fresh water) : PNEC = Predicted No	ethanol Effected Concentration	0.96 mg/L	CAS No.: 64-17-5d	
	LC50daphnia magna/ LC50pimephales pror LC50leuciscus idus/9	melas/96h	>100 g/L 13.4-15.1 g/L [48h] 8.14 g/L		
	LC50fish/96h: EC50daphnia/48h:		13 g/L 9.3-14.2 g/L		
	IC50 _{scenedesmus} qu EC10 _{pseudomonas} p Water hazard clas	outita/16h [:] s (DE):	[7d] 5000 mg/L [EC5] 6500 mg/L 1 WGK No.: 0096		
	Dispersion coeffici Storage class (VC	ent _(octanol-water) : I):	-0.31 3		
	Chemical: Water hazard clas		1	CAS No.: 7447-40-7	
	Storage class (VC	,	12-13		
		zards must not be	ng effects. Avoid contact of substance/mixture to env labelled with P phrases until 125 mL (EU 1272/2008 1		
	Storage class (VC		12-13		
	Chemical: Water hazard clas Storage class (VC		ture < 1% 1 12-13	CAS No.: -	
	200 mL EQU-EF Chemical:	ethanol		CAS No.: 64-17-5d	
	PNEC(fresh water) : PNEC = Predicted No	Effected Concentration	0.96 mg/L	0A0 No.: 04-17-00	
	LC50daphnia magna LC50pimephales pro LC50leuciscus idus/9 LC50fish/96h :	melas/96h	>100 g/L 13.4-15.1 g/L [48h] 8.14 g/L 13 g/L		
	EC50daphnia/48h : IC50scenedesmus qu EC10pseudomonas p		9.3-14.2 g/L [7d] 5000 mg/L [EC5] 6500 mg/L		
	Water hazard clas Dispersion coeffici Storage class (VC	s (DE): ent _(octanol-water) :	1 WGK No.: 0096 -0.31 3		
	Chemical: Water hazard clas Storage class (VC		oride 1 12-13	CAS No.: 7447-40-7	
	Environmental haz	zards must not be	ng effects. Avoid contact of substance/mixture to env labelled with P phrases until 125 mL (EU 1272/2008		
	Water hazard clas Storage class (VC		1 12-13		
	Chemical: Water hazard clas Storage class (VC		ture < 1% 1 12-13	CAS No.: -	
	60 mL FIL-EF Chemical:	notocolum chi	nrido	CAS No.: 7447-40-7	
	Water hazard clas Storage class (VC		1 12-13	Unu NU 1441-40-1	
	Chemical: Water hazard clas	chemicals/mixt	ture < 1% 1	CAS No.: -	



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EF: 740420.10 rinting date: 12.	05 2021		NucleoBond Xtra Midi EF (10) Date of issue: 17.02.2021		Page: 20/2
many date. 12.			Bate 01 18800. 17.02.2021		
10	0 mL LYS-EF				
	Chemical:	sodium hydroxi		CAS No.: 1310-73-2d	
	LC50 _{leuciscus} idus/96h :		35-189 mg/L		
	LC50 _{fish/96h} :		45.4 mg/L		
	EC50 _{daphnia/48h} :		>100 mg/L		
	Water hazard class (I	DE):	nwg WGK No.: 0142		
	Storage class (VCI):		12-13		
	Chemical:	dodecyl sulfate		CAS No.: 151-21-3	
	LC50daphnia magna/48h	1:	6.3 mg/L		
	LC50 _{fish/96h} :		1.31-22.5 mg/L		
	Water hazard class (I	DE):	2		
	Dispersion coefficient	(octanol-water)	1.6		
	Storage class (VCI):		12-13		
	Chemical:	indicator dye(s,		CAS No.: -	
	Storage class (VCI):		12-13		
10	0 mL NEU-EF				
	Chemical:	acetate buffer s	solution	CAS No.: -	
	Storage class (VCI):		12		
	. (.)				
10	0 mL RES-EF			0401	
	Chemical:	chemicals/mixt		CAS No.: -	
	Water hazard class (I	DE):	1		
	Storage class (VCI):		12-13		
0.0	6-100 mg RNase A (lyc	b)			
•	Chemical:	RNase		CAS No.: 9001-99-4	
	Water hazard class (I	DE):	1		
	Storage class (VCI):		13		
20	mL TE-EF				
30	Chemical:	chemicals/mixt	uro < 1%	CAS No.: -	
	Water hazard class (I		1 ure < 1%		
	Storage class (VCI):	DL).	12-13		
20	0 mL WASH-EF	- (1 1		040 No. 04 47 54	
	Chemical:	ethanol	0.00	CAS No.: 64-17-5d	
	PNEC(fresh water) : PNEC = Predicted No Effe	cted Concentration	0.96 mg/L		
			>100 a/l		
	LC50 _{daphnia} magna/48h		>100 g/L 13 4 15 1 c/l		
	LC50pimephales prometa	as/96h	13.4-15.1 g/L [48b] 8 14 g/l		
	LC50leuciscus idus/96h : LC50fish/96h :		[48h] 8.14 g/L 13 g/L		
	EC50 _{fish/96h} . EC50 _{daphnia/48h} :		9.3-14.2 g/L		
	IC50scenedesmus quadr		[7d] 5000 mg/L		
	EC10 _{pseudomonas putiti}		[EC5] 6500 mg/L		
	Water hazard class (I		1 WGK No.: 0096		
	Dispersion coefficient		-0.31		
	Storage class (VCI):		3		
	Chemical:	potassium chlo	ride	CAS No.: 7447-40-7	
	Water hazard class (I		1		
	Storage class (VCI):		12-13		
	Chemical:	chemicals/mixt	ure < 1%	CAS No.: -	
	Water hazard class (I		1	000 10	
	Storage class (VCI):		12-13		
30	mL H ₂ O-EF Chemical:	water		CAS No.: 7732-18-5	



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		Date of issue: 17.02.2021		
	9 mL H ₂ O-EF (for 70% ethanol) Chemical: water		CAS No.: 7732-18-5	
12.2	Persistence and degradabilit not necessary	ty		
12.3	Bioaccumulative potential not necessary			
12.4	Mobility in soil not necessary			
12.5	Results of PBT and vPvB ass no data available	sessment		
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

UN 1993 class 3 III, Excepted Quantities (≤30 mL/∑≤1 L) = ADR/ IATA E1

or 14.1 UN number:	1993 14.2	UN proper shipping name: Flammable liquid, n.o.s. (2-propanol mixture)	
14.3 Class:	3 14.4	Packing group: III	
Road transport			
Classification code:	F1		
Limited Quantity:	5 L	Tunnel restriction code: 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	300	max. weight CAO. 220 L	
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 / 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

E-mail: sales-fr@mn-net.com

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 ---

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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.		
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.		
	H315 H319 H334 H412 List of relevant P210 P261sh P273 P280sh		

P342+311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

16.2 **Training advice**

16.1.2

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, 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

E-mail: sales-fr@mn-net.com

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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