MACHEREY-NAGEI



Safety Data Sheet

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

REF: 740651	NucleoBond RNA/DNA 400 (10)	Page: 1/21
Printing date: 12.05.2021	Date of issue: 20.04.2021	

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

1.1 **Product identifier**

REF Product name 740651 NucleoBond RNA/DNA 400 (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 125 mL N5
4 x 125 mL R0
2 x 125 mL R1
2 x 125 mL R2
1 x 125 mL R3
1 x 75 mL R4
1 x 36 g UREA
1 x 30 mL W1
1 x 10 mL W3
1 x 30 mL W4
1 x 80 mL W5
1 x 30 mL W6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Product for analytical use.

Exposure Scenario Classification according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0 The exposure scenario is integrated into sections 1-16. Uses advised against not described

1.3 Details of the supplier of the safety data sheet

Manufactured by:

MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11, 52355 Düren, GERMANY Tel.: +49 2421 969 0

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

1.4 Emergency telephone number

Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service. DE: Gemeinsames Giftinformationszentrum (GGIZ) 99089 Erfurt tel. +49 361 730 730

You find our current versions of SDS (22 languages) in Internet:

http://www.mn-net.com/SDS

SECTION 2: Hazard identification

2.0 Classification of the complete product



Signal word

Hazard identification	Hazard classes/categories		
H226	Flam. Liq. 3		
H302	Acute Tox. 4 oral		
H315	Skin Irrit. 2		
H318	Eye Dam. 1		
H411	Aquatic Chronic 2		
H412	Aquatic Chronic 3		

DANGER



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

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2.1	Classification of the subs	stance or mixture	

125 mL N5

	•
	GHS02
Signal word	WARNING
Hazard identification	
Hazard Identification H226	Hazard classes/categories Flam. Liq. 3
	1 -
125 mL R0	
	GHS02
Signal word	WARNING
Hazard identification	Hazard classes/categories
H226	Flam. Liq. 3
125 mL R1	
	GHS02
Signal word	WARNING
Hazard identification	Hazard classes/categories
H226	Flam. Liq. 3
125 mL R2	
	C 3
	GHS02
Signal word	WARNING
Hazard identification	Hazard classes/categories
H226	Flam. Liq. 3
125 mL R3	
	•
	\forall



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GHS02

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rinting date: 12.05.2021	NucleoBond RNA/DNA 400 (10) Date of issue: 20.04.2021	Page: 3/21
Signal word	WARNING	
Hazard identification	Hazard classes/categories	
H226	Flam. Liq. 3	
75 mL R4		
	GHS02	
Signal word	WARNING	
Hazard identification	Hazard classes/categories	
H226	Flam. Liq. 3	
36 g UREA		
Signal word	Do not need labelling as hazardous -	
No hazard class		
30 mL W1		
	\wedge	
	GHS07	
Signal word	WARNING	
Hazard identification	Hazard classes/categories	
H302 H412	Acute Tox. 4 oral Aquatic Chronic 3	
10 mL W3		
	$ \land \land \land \land $	
O issued as a set of the set of	GHS05 GHS07 GHS09	
Signal word Hazard identification	DANGER	
H302	Hazard classes/categories Acute Tox. 4 oral	
H315 H318	Skin Irrit. 2 Eye Dam. 1	
H310 H411	Aquatic Chronic 2	
30 mL W4		
Signal word	Do not need labelling as hazardous -	
No hazard class		



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80 mL W5		
Signal word	Do not need labelling as hazardous -	
No hazard class		
30 mL W6		
Signal word	Do not need labelling as hazardous -	
N N N N		

No hazard class

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).

125 mL N5



125 mL R0



Signal word: WARNING

125 mL R1



Signal word: WARNING

125 mL R2



125 mL R3



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Signal word: WARNING

75 mL R4



Signal word: WARNING

36 g UREA

Do not need labelling as hazardous Signal word: -

30 mL W1



Signal word: WARNING

H412 Harmful to aquatic life with long lasting effects.

10 mL W3



Signal word: DANGER

H318 Causes serious eye damage.

P280sh, P305+351+338, P310

Wear protective gloves/eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

30 mL W4

Do not need labelling as hazardous Signal word: -

80 mL W5

Do not need labelling as hazardous Signal word: -

30 mL W6

Do not need labelling as hazardous Signal word: -

2.3 Other hazards

Possible hazards from physicochemical properties

Generally in the case of pH values are less than 2 or higher than 11.5 then it is corrosive. In the case of pH values are less than 5 or higher than 9 then it is irritant. Flammable properties. For guanidine thiocyanate CAS 593-84-0: The properties H314, H332 "Causes severe skin burns and eye damage. Harmful if inhaled." are not relevant, because the mixture solution is buffered to pH 4-9 (see GHS Directive 1272/2008/EC Annex I, chapter 3.2.3.1.2.). ---

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Information pertaining to particular risks to human and possible symptoms

Causes varying degrees of acid burns on the skin, to the eyes and to the mucous membranes and wounds which do not heal quickly depending on the concentration, temperature and the exposure time. Vapours especially which steam from hot liquids and mist can have a severe irritant effect upon the eyes and the respiratory organs. Cause after oral intake, impairments of health when ingested in small quantities. -

Information pertaining to particular risks to the environment

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

Other hazards

SECTION 3: Composition/information on ingredients

3.1 Substances or 3.2 Mixtures

125 mL N5

		<i>ol</i> (diluted < 20 %) atured with 1%IPA/1%MEK, acc.20 ⁻	16/1867/EU)	CAS No.: 64-17-5d
	Classification: Formula: Pseudonym: TSCA Inventory:	H225, Flam. Liq. 2 C ₂ H ₆ O; C ₂ H ₅ OH ethyl alcohol, methylated spirit listed	,	
	REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS):	01-2119457610-43-xxxx 200-578-6 KQ6300000 KE-13217 5 - <20 % H226, Flam. Lig. 3	Indice No.: MFCD:	603-002-00-5 00003568
	Chemical: potas: Classification: Formula: TSCA Inventory:	sium chloride No criteria for classification or naming of o KCI listed	chemical not required.	CAS No.: 7447-40-7
	REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS):	01-2119539416-36-xxxx 231-211-8 TS8050000 KE-29086 1 - <10 % The criteria for classification are not fulfille	MFCD:	00011360
	Chemical: Stabil. Classification: TSCA Inventory: KE No.: Concentration: acc. CLP (GHS):	isators. Buffers. Detergents < 1% No criteria for classification or naming of a all listed, <1% listed 0.1 - <1 % The criteria for classification are not fulfille		CAS No.: -
125 mL				
		o/ (diluted < 20 %) tured with 1%/PA/1%MEK, acc.20 H225, Flam. Liq. 2 $C_2 H_6 O; C_2 H_5 OH$ ethyl alcohol, methylated spirit listed 01-2119457610-43-xxxx	16/1867/EU)	CAS No.: 64-17-5d
	EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS):	200-578-6 KQ6300000 KE-13217 5 - <20 % H226, Flam. Liq. 3	Indice No.: MFCD:	603-002-00-5 00003568

125 mL R1

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mining date. 12.05.20	21	Date of issue. 20.04.2	:021		
		<i>ol</i> (diluted < 20 %)		CAS No.: 64-17-5d	
		atured with 1%IPA/1%MEK, acc.2016	/1867/EU)		
	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			
	EC No.:	200-578-6	Indice No.:	603-002-00-5	
	RTECS:	KQ6300000	MFCD:	00003568	
	KE No.:	KE-13217			
	Concentration:	5 - <20 %			
	acc. CLP (GHS):	H226, Flam. Liq. 3			
125 mL					
		<i>ol</i> (diluted < 20 %)		CAS No.: 64-17-5d	
	(dena	atured with 1%IPA/1%MEK, acc.2016	/1867/EU)		
	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			
	EC No.:	200-578-6	Indice No.:	603-002-00-5	
	RTECS:	KQ6300000	MFCD:	00003568	
	KE No.:	KE-13217			
	Concentration:	5 - <20 %			
	acc. CLP (GHS):	H226, Flam. Liq. 3			
125 mL	R3				
		<i>ol</i> (diluted < 20 %)		CAS No.: 64-17-5d	
	(dena	atured with 1%IPA/1%MEK, acc.2016	/1867/EU)		
	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			
	EC No.:	200-578-6	Indice No.:	603-002-00-5	
	RTECS:	KQ6300000	MFCD:	00003568	
	KE No.:	KE-13217			
	Concentration:	5 - <20 %			
	acc. CLP (GHS):	H226, Flam. Liq. 3			
75 mL F					
		<i>ol</i> (diluted < 20 %)		CAS No.: 64-17-5d	
		atured with 1%IPA/1%MEK, acc.2016	/1867/EU)		
	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		000 000 00 -	
	EC No.:	200-578-6	Indice No.:	603-002-00-5	
	RTECS:	KQ6300000	MFCD:	00003568	
	KE No.:	KE-13217			
	Concentration:	5 - <20 %			
	acc. CLP (GHS):	H226, Flam. Liq. 3			
		sium chloride		CAS No.: 7447-40-7	
	Classification:	No criteria for classification or naming of che	emical not required.		
	Formula:	KCI			
	TSCA Inventory:	listed			
	REACH Reg. No.:	01-2119539416-36-xxxx			
	EC No.:	231-211-8	11505	0001/000	
	RTECS:	TS8050000	MFCD:	00011360	
	KE No.:	KE-29086			
	Concentration:	10 - <20 %			
	acc. CLP (GHS):	The criteria for classification are not fulfilled.			



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ronic 3 C ₂ H ₆ N ₄ S guanidine rhodanide listed	ming of chemical not required. MFCD: not fulfilled.	CAS No.: 57-13-6 00008022
No criteria for classification or nan CH ₄ N ₂ O carbamide listed : 01-2119463277-33-xxxx 200-315-5 YR6250000 KE-35144 90 - <100 % The criteria for classification are n midinium thiocyanate H302, Acute Tox. 4 oral, H ronic 3 C ₂ H ₆ N ₄ S guanidine rhodanide listed	MFCD:	00008022
No criteria for classification or nan CH ₄ N ₂ O carbamide listed : 01-2119463277-33-xxxx 200-315-5 YR6250000 KE-35144 90 - <100 % The criteria for classification are n midinium thiocyanate H302, Acute Tox. 4 oral, H ronic 3 C ₂ H ₆ N ₄ S guanidine rhodanide listed	MFCD:	00008022
No criteria for classification or nan CH ₄ N ₂ O carbamide listed : 01-2119463277-33-xxxx 200-315-5 YR6250000 KE-35144 90 - <100 % The criteria for classification are n midinium thiocyanate H302, Acute Tox. 4 oral, H ronic 3 C ₂ H ₆ N ₄ S guanidine rhodanide listed	MFCD:	00008022
CH ₄ N ₂ O carbamide listed : 01-2119463277-33-xxxx 200-315-5 YR6250000 KE-35144 90 - <100 % The criteria for classification are n midinium thiocyanate H302, Acute Tox. 4 oral, H ronic 3 C ₂ H ₆ N ₄ S guanidine rhodanide listed	MFCD:	
listed 01-2119463277-33-xxxx 200-315-5 YR6250000 KE-35144 90 - <100 % The criteria for classification are n <i>anidinium thiocyanate</i> H302, Acute Tox. 4 oral, H ronic 3 C ₂ H ₆ N ₄ S guanidine rhodanide listed	not fulfilled.	
: 01-2119463277-33-xxxx 200-315-5 YR6250000 KE-35144 90 - <100 % The criteria for classification are n <i>anidinium thiocyanate</i> H302, Acute Tox. 4 oral, H ronic 3 C ₂ H ₆ N ₄ S guanidine rhodanide listed	not fulfilled.	
$\begin{array}{c} 200\text{-}315\text{-}5\\ \text{YR6250000}\\ \text{KE-}35144\\ 90\ \text{-}<100\ \%\\ \text{The criteria for classification are n}\\ \textbf{midinium thiocyanate}\\ \text{H302, Acute Tox. 4 oral, Hill ronic 3}\\ \text{C}_2\ \text{H}_6\ \text{N}_4\ \text{S}\\ \text{guanidine rhodanide}\\ \text{listed}\\ \end{array}$	not fulfilled.	
YR6250000 KE-35144 90 - <100 % The criteria for classification are n anidinium thiocyanate H302, Acute Tox. 4 oral, H ronic 3 C ₂ H ₆ N ₄ S guanidine rhodanide listed	not fulfilled.	
KE-35144 90 - <100 % The criteria for classification are n anidinium thiocyanate H302, Acute Tox. 4 oral, H ronic 3 C ₂ H ₆ N ₄ S guanidine rhodanide listed	not fulfilled.	
90 - <100 % The criteria for classification are n <i>inidinium thiocyanate</i> H302, Acute Tox. 4 oral, H ronic 3 C ₂ H ₆ N ₄ S guanidine rhodanide listed		CAS No : 502 84 0
n <i>idinium thiocyanate</i> H302, Acute Tox. 4 oral, H ronic 3 C ₂ H ₆ N ₄ S guanidine rhodanide listed		CAS No. 502 84 0
H302, Acute Tox. 4 oral, H ronic 3 C ₂ H ₆ N ₄ S guanidine rhodanide listed	312, Acute Tox. 4 derm I	CAS No - 502 84 0
H302, Acute Tox. 4 oral, H ronic 3 C ₂ H ₆ N ₄ S guanidine rhodanide listed	312, Acute Tox. 4 derm I	CAS No - 502 84 0
ronic 3 C ₂ H ₆ N ₄ S guanidine rhodanide listed	312, Acute Tox. 4 derm I	CAS No.: 593-84-0
C ₂ H ₆ N ₄ S guanidine rhodanide listed	, .	H314, Skin Corr. 1B, H332, Acute Tox. 4 inh.,
guanidine rhodanide listed		
listed		
01-2120735072-65-0001		
209-812-1	Indice No .:	615-004-00-3
XL1225000	MFCD:	00013027
not listed		
30 - <45 %	112 Aquatia Chronic 2	
H302, Acute Tox. 4 oral, H	412, Aqualic Chronic 3	
on® X-100	245 Olda Junit 0 11240 5	CAS No.: 9002-93-1
$C_{33} H_{60} O_{10.5}$	315, SKIN IMIL 2, H318, E	ye Dam. 1, H410, Aquatic Chronic 1
octoxynol-9		
listed		
listed		
MD0907700	MFCD:	00132505
KE-33568		
15 - <25 %	215 Oldin Invit 0 11210 D	ve Dem 1 11411 Aquetic Chronic 2
H302, Acute Tox. 4 ofai, H	315, SKIII IIIIL 2, H310, E	ye Dam. 1, H411, Aquatic Chronic 2
tate buffer solution		CAS No.: -
No criteria for classification or nan CH ₃ COOH/K/Na•H ₂ O	ning of chemical not required.	
all listed		
listed		
15 - <25 %		
The criteria for classification are n	not fulfilled.	
micals/mixture < 1%		CAS No.: -
	ming of chemical not required.	
all listed, <1%		
	not fulfilled.	
	all listed, <1% listed 0.1 - <1 %	listed 0.1 - <1 %



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Printing date: 12.05.2	2021	Date of iss	sue: 20.04.2021		
	Chemical: potas	sium chloride		CAS No.: 7447-40-7	
	Classification: Formula: TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration:	KCI listed 01-2119539416-36-xxxx 231-211-8 TS8050000 KE-29086 10 - <20 %	MFCD:	00011360	
	Concentration: acc. CLP (GHS):	10 - <20 % The criteria for classification a	re 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 section 16.1

SECTION 4: First aid measures

4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitation if necessary. If necessary contact medical advice. Remove contaminated clothing. Show product package, packing insert and this material safety data sheet to the doctor.

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 for min. 10 minutes with eye washing bottle, eye douche or running water (protect intact eye). Before (if possible) apply eye drops Proxymetacaine 0.5%, if the opening the eyelid convulsion is painful. Further treatment to be carried out by an eye specialist.

After INHALATION of vapours 4.1.3

After inhalation of foam or vapour fresh air should be inhaled. Keep airways free. ---

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

4.3 Indication of any immediate medical attention and special treatment needed

After EYE CONTACT rinse immediately with plenty of water for a long time. Eyelid convulsion measures. Name the corrosive chemical. Further treatment must to be carried out by an eye specialist. ---

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. Product package burns like paper or plastic.

Additional information 5.4

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Wear eye protection, respectively face protection. Regular staff training is necessary, indicating hazards and precautions on the basis of operating instructions. Restrictions on activity must be observed.

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	-		
6.2	Environmental precaution		
	not necessary, contains only small		
6.3	Bind any escaping liquid with ine Clean any contaminated equipm	r containment and cleaning up rt absorbent. And dispose in accordance to local re- ent and floors with plenty of water. liquid and flush with water into drains.	gulations for the disposal of hazardous chemicals.
6.4	Reference to other section	ons	
SEC	TION 7: Handling and s	torage	
7.1	Precautions for safe han Handling in accordance with the	dling test instruction, that comes with the product.	
7.2	Conditions for safe stora	age, including any incompatibilities	
	The original product package of Storage class (VCI): Water hazard class (DE):	MACHEREY-NAGEL allows a safe storage. 3 3	
7.2.1	Requirements for stock ro	oms and containers	inbreakable container for transport of glass bottles.
7.3	Specific end use(s) Product for analytical use.		
SEC	TION 8: Exposure cont	ols/personal protection	
8.1	Control parameters		
	125 mL N5		
	Chemical: <i>ethanol</i> 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	
		ratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) no	ot securely excluded / (Y) certainly excluded
	SUVA(CH) MAK value:	500 ppm / 960 mg/m ³ [TWA] 1000 ppm / 1900 mg/m ³	
	NIOSH: [TWA] Time-weighted ave		re limit related to a 15-minute period
		rage to a reference period of 8 hours, [STEL] Short-term exposu 1000 ppm / 1900 mg/m ³	re limit related to a 15-minute period
	[TWA] Time-weighted ave	1000 ppm / 1900 mg/m³	re limit related to a 15-minute period CAS No.: 7447-40-7
	[TWA] Time-weighted ave OSHA: Chemical: <i>potassium ch</i>	1000 ppm / 1900 mg/m³	
	[TWA] Time-weighted ave OSHA: Chemical: potassium ch Chemical: Stabilisators. 125 mL R0 Chemical: ethanol	1000 ppm / 1900 mg/m³ oride Buffers. Detergents < 1%	CAS No.: 7447-40-7
	[TWA] Time-weighted ave OSHA: Chemical: potassium chi Chemical: Stabilisators. 125 mL R0 Chemical: ethanol DNEL: DNEL = Derived No-Effect	1000 ppm / 1900 mg/m ³ loride Buffers. Detergents < 1% [derm] 343 mg/kg; [inh] 950 mg/m ³ t Level (for workers)	CAS No.: 7447-40-7 CAS No.: -
	[TWA] Time-weighted ave OSHA: Chemical: potassium chi Chemical: Stabilisators. 125 mL R0 Chemical: ethanol DNEL: DNEL = Derived No-Effec PNEC(fresh water) : PNEC = Predicted No Effec	1000 ppm / 1900 mg/m ³ loride Buffers. Detergents < 1% [derm] 343 mg/kg; [inh] 950 mg/m ³ t Level (for workers) 0.96 mg/L acted Concentration	CAS No.: 7447-40-7 CAS No.: -
	[TWA] Time-weighted ave OSHA: Chemical: potassium ch. Chemical: Stabilisators. 125 mL R0 Chemical: ethanol DNEL: DNEL = Derived No-Effect PNEC(fresh water) : PNEC = Predicted No Effect TRGS 900 (DE):	1000 ppm / 1900 mg/m ³ <i>foride</i> <i>Buffers. Detergents</i> < 1% [derm] 343 mg/kg; [inh] 950 mg/m ³ t Level (for workers) 0.96 mg/L beted Concentration 200 ppm / 380 mg/m ³ E/e respirable	CAS No.: 7447-40-7 CAS No.: -
	[TWA] Time-weighted ave OSHA: Chemical: potassium ch. Chemical: Stabilisators. 125 mL R0 Chemical: ethanol DNEL: DNEL = Derived No-Effect PNEC (fresh water) : PNEC = Predicted No Effect TRGS 900 (DE): Short-term exposure factor: skin resorptive (H), respi	1000 ppm / 1900 mg/m ³ loride Buffers. Detergents < 1% [derm] 343 mg/kg; [inh] 950 mg/m ³ t Level (for workers) 0.96 mg/L ected Concentration 200 ppm / 380 mg/m ³ E/e respirable 4 (II), Y ratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) no	CAS No.: 7447-40-7 CAS No.: - CAS No.: 64-17-5d
	[TWA] Time-weighted ave OSHA: Chemical: potassium chi Chemical: Stabilisators. 125 mL R0 Chemical: ethanol DNEL: DNEL = Derived No-Effec PNEC (fresh water) : PNEC = Predicted No Effec TRGS 900 (DE): Short-term exposure factor: skin resorptive (H), respi SUVA(CH) MAK value: NIOSH:	1000 ppm / 1900 mg/m ³ loride Buffers. Detergents < 1% [derm] 343 mg/kg; [inh] 950 mg/m ³ t Level (for workers) 0.96 mg/L sected Concentration 200 ppm / 380 mg/m ³ E/e respirable 4 (II), Y	CAS No.: 7447-40-7 CAS No.: - CAS No.: 64-17-5d



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Printing date:	12.05.2021		Date of issue: 20.04.2021	
<u> </u>	125 mL R1 Chemical:	ethanol	CAS No.: 64-17-5d	
	PNEC(fresh w	= Derived No-Effect I	0.96 mg/L	
	TRGS 900 ([,	200 ppm / 380 mg/m³ E/e respirable	
	skin re SUVA(CH) M NIOSH:	/IAK value:	4 (II), Y tory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded 500 ppm / 960 mg/m ³ [TWA] 1000 ppm / 1900 mg/m ³ ge to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period 1000 ppm / 1900 mg/m ³	
	125 mL R2 Chemical: DNEL: DNEL: PNEC(fresh w	ethanol = Derived No-Effect	[derm] 343 mg/kg; [inh] 950 mg/m³ .evel (for workers) 0.96 mg/L	
	PNEC TRGS 900 (I	= Predicted No Effec DE):	ted Concentration 200 ppm / 380 mg/m³ E/e_respirable	
	skin re SUVA(CH) M NIOSH:	/IAK value:	tory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded 500 ppm / 960 mg/m ³ [TWA] 1000 ppm / 1900 mg/m ³	
	OSHA:	Time-weighted avera	ge to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period 1000 ppm / 1900 mg/m ³	
	125 mL R3 Chemical: DNEL: DNEL:	ethanol = Derived No-Effect I	[derm] 343 mg/kg; [inh] 950 mg/m ³	
		rater) : = Predicted No Effec DE):	0.96 mg/L ted Concentration 200 ppm / 380 mg/m ³	
		xposure factor:	E/e respirable 4 (II), Y tory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded	
	SUVA(CH) M NIOSH: [TWA]		500 ppm / 960 mg/m³ [TWA] 1000 ppm / 1900 mg/m³ ige to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period	
	OSHA:		1000 ppm / 1900 mg/m³	
	75 mL R4 Chemical: DNEL: DNEL	ethanol = Derived No-Effect I	[derm] 343 mg/kg; [inh] 950 mg/m ³ Level (for workers)	
	PNEC	rater) : = Predicted No Effect	0.96 mg/L ted Concentration	
	TRGS 900 (I Short-term e		200 ppm / 380 mg/m ³ E/e respirable 4 (II). Y	
	SUVA(CH) M NIOSH:	/IAK value:	tory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded 500 ppm / 960 mg/m ³ [TWA] 1000 ppm / 1900 mg/m ³ tge to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period 1000 ppm / 1900 mg/m ³	
	Chemical:	potassium chlo		
	36 g UREA Chemical:	urea	CAS No.: 57-13-6	



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Printing date:	12.05.2021	Date of issu	e: 20.04.2021
		guanidinium thiocyanate [inh] 1092 μg/m ³ = Derived No-Effect Level (for workers) water) : 42.4 μg/L = Predicted No Effected Concentration	CAS No.: 593-84-0
	NIOSH:	not listed	, [STEL] Short-term exposure limit related to a 15-minute period
	10 mL W3 Chemical:	Triton® X-100	CAS No.: 9002-93-1
	30 mL W4 Chemical:	acetate buffer solution	CAS No.: -
	80 mL W5 Chemical:	chemicals/mixture < 1%	CAS No.: -
	30 mL W6 Chemical:	potassium chloride	CAS No.: 7447-40-7
Go			tant to chemicals with floor drainage and washing facilities. The highest
8.2.1		/ protection al recommendations.	
8.2.2			- level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansel as with code EN 374-3 level 1.
8.2.3	Eye protect Yes, safety		e shields or wrap-around protection or face protection.
8.2.4	Skin protect Recomment	tion ded to avoid contamination with these hazard	3.
3.2.5	with the skir	king, smoking, taking snuff and storage of foo n, eyes and clothing. Rinse any clothing on wh	d in work areas and at outdoor workplaces is prohibited. Avoid contact ich the substance has been spilled, and soak it in water. Wash hands before eating, and then apply protective skin cream.
SECTION	9: Phys	ical and chemical properties	
9.1 Inf	formation	on basic physical and chemical p	operties
	125 mL N5	-	

125 mL N5 Appearance: liquid pH: Flash point: Specific gravity:	Colour: colourless 8-9 38 °C 1.03 g/cm³	Odor: alcoholic
125 mL R0		
Appearance: liquid	Colour: colourless	Odor: alcoholic
pH: Flack point:	6.0-6.5 38 °C	
Flash point: Specific gravity:	0.99 g/cm ³	
opeonie gravity.	0.00 g/om	
125 mL R1		
Appearance: -	Colour: colourless	Odor: -
pH:	6.0-6.5	
Flash point:	38 °C	
Specific gravity:	1.03 g/cm³	



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125 mL R2			
Appearance: liquid	Colour: colourless	Odor: alcoholic	
pH:	6.0-6.5		
Flash point:	38 °C		
Specific gravity:	1.03 g/cm ³		
125 mL R3			
Appearance: liquid pH:	Colour: colourless 6.0-6.5	Odor: alcoholic	
Flash point:	38 °C		
Specific gravity:	1.04 g/cm ³		
	0		
75 mL R4	.	- .	
Appearance: liquid	Colour: colourless	Odor: alcoholic	
pH:	6-6.5 36 °C		
Flash point: Specific gravity:	1.05 g/cm ³		
Specific gravity.	1.05 g/off		
36 g UREA			
Appearance: powder (solid)	Colour: colourless	Odor: odorless	
pH:	9 (10%)		
Melting point:	133 °C		
Vapour pressure (20°C):	< 0.1		
Specific gravity:	1.34 sol. g/cm ³		
Solubility in water:	0-50 %		
30 mL W1			
Appearance: liquid	Colour: colourless	Odor: odorless	
pH:	7.5-8		
Specific gravity:	1.11 g/cm ³		
10 mL W3			
Appearance: liquid	Colour: colourless	Odor: odorless	
Specific gravity:	1.02 g/cm ³	Oddi. Oddiess	
	0		
30 mL W4			
Appearance: liquid	Colour: colourless	Odor: odorless	
pH:	6-7		
80 mL W5			
Appearance: liquid	Colour: colourless	Odor: odorless	
pH:	7.5-8		
30 mL W6			
Appearance: liquid	Colour: colourless	Odor: odorless	
pH:	6-6.5		
Specific gravity:	1.08 g/cm ³		
opeenie gravity.	1.00 g/offi		

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.

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	Judie. 12.00.2021		Date 0113506. 20.04.2021	
10.3	Possibility of haza Note: Can form very rea available.		oxidizing agents. Possible: Contact with acids	s liberates toxic gas. No further data
10.4	Conditions to avo Not necessary	id		
10.5	Incompatible mate Avoid contact with stron			
10.6	Hazardous decom In the original package a period under recommen	all parts/all reagents a	ts re safety and separated stored. Decomposition	ns are not observed during the expiration
	ION 11: Toxicolo	gical informat	tion	
11.1	-	-	t S stances. Quantitative data on the toxicity of th	nis product are not available.
	125 mL N5	- 11 1		010 No. 01 47 FJ
	Chemical: TSCA Inventory:	<i>ethanol</i> listed	California Proposition 65 List: not li	CAS No.: 64-17-5d isted
	ACGIH:	1000 ppm	•	
	Exposure Routes: Target Organs:		ngestion, skin and/or eye contact respiratory system, central nervous system, liv	ver blood reproductive system
	Symptoms:	irritation eye	es, skin, nose; headache, drowsiness, lassitud	
		nia; reproductive, terat		· · · ·
	Australia NICNAS: Japan CSCL/PRTR	not listed	Canada CEPA 1999: DSL apan PDSCL: not listed	yes
	Japan ISHL:		%/≥0,1%, Article 57-2 (SDS required)	
	South Korea TCCA		• • •	
	Korea Exist.Chem.I LD50 _{orl rat} :	nventory: KE-13217 6200 mg/kg		
	LC_Low _{ihl gpg} :	21.9 g/m ³		
	LC_Loworl hmn :	1400 mg/kg		
	LC50 _{ihl mouse} :	[4h] 39 g/m		
	LC50 _{ihl rat} : LD50 _{drm rbt} :	[10h] 20 g/r 20 000 mg/		
	LD50oral mouse :	3450 mg/kg		
	TRGS 905 (DE):	K5, M5, R _F	с	
	Chemical:	potassium chloride		CAS No.: 7447-40-7
	TSCA Inventory:	listed nventory: KE-29086		
	LD50 _{orl rat} :	2600 mg/kg	1	
	Chemical: TSCA Inventory:	Stabilisators. Buffer all listed, <1	rs. Detergents < 1%	CAS No.: -
	Korea Exist.Chem.I			
	125 mL R0			
	Chemical: TSCA Inventory:	<i>ethanol</i> listed	California Proposition 65 List: not li	CAS No.: 64-17-5d
	ACGIH:	1000 ppm	California Proposition 05 Elst. not il	Sied
	Exposure Routes:		ngestion, skin and/or eye contact	
	Target Organs: Symptoms:		respiratory system, central nervous system, lives, skin, nose; headache, drowsiness, lassitud	
		nia; reproductive, terat		de (weakiless, exhaustion), narcosis, cough
	Australia NICNAS:	not listed	Canada CEPA 1999: DSL	yes
	Japan CSCL/PRTR Japan ISHL:		apan PDSCL: not listed ⁄/≥0,1%, Article 57-2 (SDS required)	
	South Korea TCCA		0/20,1%, AILICIE 37-2 (SDS required)	
	Korea Exist.Chem.I	nventory: KE-13217		
	LD50 _{orl rat} :	6200 mg/kg	1	
	LC_Low _{ihl gpg} :	21.9 g/m³		www.mn-ne
			eander-Str. 6–8 · 52355 Düren · Germany	
	ternational:	CH:	FR:	US:
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Safety Data Sheet

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Printing date:	12.00.2021		Date	of issue: 20.04	ł.ZUZ I		
	LC_Loworl hmn :		1400 mg/kg				
	LC50 _{ihl mouse} :		[4h] 39 g/m ³				
	LC50 _{ihl rat} :		[10h] 20 g/m ³				
	LD50 _{drm rbt} :		20 000 mg/kg				
	LD50 _{oral mouse} :		3450 mg/kg				
	TRGS 905 (DE):		K5, M5, R _F C				
125	5 mL R1						
	Chemical:	ethanol				CAS No.: 64-17-5d	
	TSCA Inventory:		listed	California Pro	oposition 65 List: not liste	ed	
	ACGIH:		1000 ppm	akin and/or av	io contact		
	Exposure Routes: Target Organs:		inhalation, ingestion,		tral nervous system, liver	· blood reproductive sv	stom
	Symptoms:				e, drowsiness, lassitude (
	liver damage; anemia						, naroosis, oougn
	Australia NICNAS:		not listed	Cana	da CEPA 1999: DSL yes	6	
	Japan CSCL/PRTR:		not listed, Japan PD				
	Japan ISHL:		listed ≥0,1%/≥0,1%,	Article 57-2 (S	DS required)		
	South Korea TCCA:		not listed	,	. ,		
	Korea Exist.Chem.In	ventory:	KE-13217				
	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/m ³				
	LC50 _{ihl rat} :		[10h] 20 g/m³ 20 000 mg/kg				
	LD50 _{drm rbt}		20 000 mg/kg 3450 mg/kg				
	LD50 _{oral mouse} :		0.0				
	TRGS 905 (DE):		K5, M5, R _F C				
125	5 mL R2						
	Chemical:	ethanol				CAS No.: 64-17-5d	
	TSCA Inventory:		listed	California Pro	oposition 65 List: not liste	ed	
	ACGIH:		1000 ppm				
	Exposure Routes:		inhalation, ingestion,			bland reproductive or	atam
	Target Organs: Symptoms:				tral nervous system, liver e, drowsiness, lassitude (
	liver damage; anemia			iose, neauach	e, diowsiness, lassitude ((weakiess, exhaustion)	, naicosis, cougi
	Australia NICNAS:		not listed	Cana	da CEPA 1999: DSL yes	\$	
	Japan CSCL/PRTR:		not listed, Japan PD			-	
	Japan ISHL:		listed ≥0,1%/≥0,1%,				
	South Korea TCCA:		not listed	,	, , , , , , , , , , , , , , , , , , ,		
	Korea Exist.Chem.In	ventory:	KE-13217				
	LD50 _{orl rat} :		6200 mg/kg				
	LC_Low _{ihl gpg} :		21.9 g/m³				
	LC_Loworl hmn :		1400 mg/kg				
	LC50 _{ihl mouse} :		[4h] 39 g/m ³				
	LC50 _{ihl rat} :		[10h] 20 g/m ³				
	LD50 _{drm rbt}		20 000 mg/kg				
	LD50 _{oral mouse} :		3450 mg/kg				
	TRGS 905 (DE):		K5, M5, R _F C				
125	5 mL R3					0.0.0. 0. 	
	Chemical:	ethanol	listed			CAS No.: 64-17-5d	
	TSCA Inventory:		listed	California Pro	oposition 65 List: not liste	D	
	ACGIH: Exposure Routes:		1000 ppm	ekin and/or a	ve contact		
	Exposure Routes: Target Organs:		inhalation, ingestion,		re contact tral nervous system, liver	· blood reproductive sv	stem
	Symptoms:				e, drowsiness, lassitude (
	liver damage; anemia						, na 00010, 000gH
	Australia NICNAS:		not listed	Cana	da CEPA 1999: DSL yes	6	
	Japan CSCL/PRTR:		not listed, Japan PD				
	Japan ISHL:		listed ≥0,1%/≥0,1%,				
	South Korea TCCA:	I	not listed		. ,		
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	24 21 969-199		+41 62 388 55 05	Fax:	+33 388 51 76 88	Fax: +1 484 821	
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111011g date. 12.05.2021	Date of issue. 20.04.2021	
Korea Exist.Chem.Inventory:	KE_13917	
LD50 _{orl rat} :	6200 mg/kg	
LC_LOWihl gpg :	21.9 g/m ³	
LC_LOW _{orl hmn} :	1400 mg/kg	
LC50 _{ihl mouse}	[4h] 39 g/m ³	
	[10ĥ] 20 g/m³	
LD50 _{drm rbt} :	20 000 mg/kg	
LD50oral mouse :	3450 mg/kg	
TRGS 905 (DE):	K5, M5, R _F C	
75 mL R4		
Chemical: ethanol	CAS No.: 64- listed California Proposition 65 List: not listed	17-5d
TSCA Inventory: ACGIH:	1000 ppm	
	inhalation, ingestion, skin and/or eye contact	
Target Organs:	Eyes, skin, respiratory system, central nervous system, liver, blood, repro	ductive system
	irritation eyes, skin, nose; headache, drowsiness, lassitude (weakness, ex	
liver damage; anemia; reprod		
Australia NICNAS:	not listed Canada CEPA 1999: DSL yes	
Japan CSCL/PRTR:	not listed, Japan PDSCL: not listed	
Japan ISHL:	listed ≥0,1%/≥0,1%, Article 57-2 (SDS required)	
South Korea TCCA:	not listed	
Korea Exist.Chem.Inventory:		
	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	
LC50ihl mouse - LC50ihl rat :	[10h] 20 g/m ³	
	20 000 mg/kg	
LD50oral mouse :	3450 mg/kg	
TRGS 905 (DE):	K5, M5, R _F C	
•	Im chloride CAS No.: 744	7-40-7
TSCA Inventory:	listed	
Korea Exist.Chem.Inventory:		
LD50 _{orl rat} :	2600 mg/kg	
36 g UREA		
Chemical: urea	CAS No.: 57-	13-6
TSCA Inventory:	listed	
Symptoms:	Carbamid, Urea	
Korea Exist.Chem.Inventory:		
	8471 mg/kg	
LD50 _{drm rat} :	8200 mg/kg	
30 mL W1		
	nium thiocvanate CAS No.: 593	-84-0
TSCA Inventory:	nium thiocyanate CAS No.: 593 listed California Proposition 65 List: not listed	-04-0
Australia NICNAS:	not listed California Proposition 05 List. not listed California Proposition 05 List. not listed	
Japan CSCL/PRTR:	not listed, Japan PDSCL: not listed	
Japan ISHL:	not listed	
South Korea TCCA:	not listed	
Korea Exist.Chem.Inventory:		
LD50 _{orl rat} :	593 mg/kg	
LC50 _{drm rbt} :	>2000 mg/m³	
LC50 _{ihl rat} :	[4h] 5.319 mg/L	
LD50ipr mus :	300 mg/kg	
Acute Effects: Cause after or	I intake, impairments of health when ingested in small quantities.	



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REF: 740651 Printing date:			NucleoBond RNA/DNA 400 (10) Date of issue: 20.04.2021		Page: 17/
10) mL W3	1 X 400			
	Chemical: Trite TSCA Inventory:	<i>iton®</i> X-100 listed		CAS No.: 9002-93-1	
	Korea Exist.Chem.Invent	tory: KE-33568			
	LD50 _{orl rat} :	707-1800			
	LD50 _{drm rbt} : Acute Effects: Cause afte	3000-1230 er oral intake, in	300 mg/kg impairments of health when ingested in sma	all quantities	
	Abute Enotis. Outoo and	J Ulai mano, n		in quantues.	
30) mL W4				
		etate buffer solu	lution	CAS No.: -	
	TSCA Inventory: Korea Exist.Chem.Invent	all listed torv: listed			
		ory			
80) mL W5				
~ -		emicals/mixture	e < 1%	CAS No.: -	
	TSCA Inventory:	all listed, <			
	Korea Exist.Chem.Invent	ory: listed			
30) mL W6	t	<i>.</i>	040 No - 7447 40 7	
	Chemical: pota TSCA Inventory:	<i>tassium chloride</i> listed	le	CAS No.: 7447-40-7	
	Korea Exist.Chem.Invent		6		
	LD50 _{orl rat} :	2600 mg/ł	kg		
Fui	Ilowing information is val 125 mL N5 Chemical: PNEC (fresh water) : PNEC = Predicted No Effe LC50daphnia magna/48 LC50pimephales promel LC50pimephales promel LC50fish/96h : EC50daphnia/48h : IC50scenedesmus quad EC10pseudomonas puti Water hazard class (VCI): Chemical: Water hazard class (ethanol ffected Concentratio 8h : elas/96h : h : dricauda/72h : tita/16h : (DE): nt(octanol-water) : : potassium ch (DE):	0.96 mg/L ion >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 3 <i>hloride</i> 1	CAS No.: 64-17-5d CAS No.: 7447-40-7	
	Storage class (VCI):		12-13		
	Chemical: Storage class (VCI):		s. Buffers. Detergents < 1% 12-13	CAS No.: -	
	125 mL R0				
	Chemical:	ethanol	0.96 mg/L	CAS No.: 64-17-5d	
	PNEC(fresh water) : PNEC = Predicted No Effe	iected Concentration	ion		
	LC50daphnia magna/48		>100 g/L		
	LC50pimephales promel LC50leuciscus idus/96h		13.4-15.1 g/L [48h] 8.14 g/L		
	LC50fish/96h :		13 g/L		
	EC50 _{daphnia/48h} :		9.3-14.2 g/L		
	IC50 _{scenedesmus} quad	dricauda/72h	[7d] 5000 mg/L [EC5] 6500 mg/L		
	EC10pseudomonas puti	ita/16h -			www.mn-i
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Safety Data Sheet

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

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	Dute 6116600. 20.04.2021	
Water hazard class (DE): Dispersion coefficient _(octanol-water) : Storage class (VCI):	1 WGK No.: 0096 -0.31 3	
125 mL R1 Chemical: ethanol PNEC(fresh water) : PNEC = Predicted No Effected Concentration	0.96 mg/L	CAS No.: 64-17-5d
LC50 _{daphnia} magna/48h	>100 g/L 13.4-15.1 g/L	
	[48h] 8.14 g/L 13 g/L 9.3-14.2 g/L	
IC50 _{scenedes} mus quadricauda/72h EC10 _{pseudo} monas putita/16h	[7d] 5000 mg/L [EC5] 6500 mg/L	
Water hazard class (DE): Dispersion coefficient _(octanol-water) : Storage class (VCI):	1 WGK No.: 0096 -0.31 3	
125 mL R2 Chemical: ethanol		CAS No.: 64-17-5d
PNEC(fresh water) : PNEC = Predicted No Effected Concentration		CAS NO.: 04-17-50
LC50pimephales promelas/96h	>100 g/L 13.4-15.1 g/L [48h] 8.14 g/L	
LC50 _{fish/96h} : EC50 _{daphnia} /48h :	13 g/L 9.3-14.2 g/L	
	[7d] 5000 mg/L [EC5] 6500 mg/L 1 WGK No.: 0096	
	-0.31 3	
125 mL R3		
Chemical: ethanol PNEC(fresh water) : PNEC = Predicted No Effected Concentration	0.96 mg/L	CAS No.: 64-17-5d
LC50pimephales promelas/96h	>100 g/L 13.4-15.1 g/L	
LC50 _{fish/96h} :	[48h] 8.14 g/L 13 g/L 9.3-14.2 g/L	
IC50scenedesmus quadricauda/72h	[7d] 5000 mg/L [EC5] 6500 mg/L 1 WGK No.: 0096	
	-0.31 3	
75 mL R4 Chemical: ethanol		CAS No.: 64-17-5d
PNEC(fresh water) : PNEC = Predicted No Effected Concentration	0.96 mg/L	
LC50pimephales promelas/96h :	>100 g/L 13.4-15.1 g/L [48h] 8.14 g/L	
LC50 _{fish/96h} : EC50 _{daphnia} /48h :	13 g/L 9.3-14.2 g/L	
EC10 _{pseudomonas} putita/16h Water hazard class (DE):	[7d] 5000 mg/L [EC5] 6500 mg/L 1 WGK No.: 0096	
	-0.31 3	



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REF: 740651	E 2021	NucleoBond RNA/DNA 400 (10)	Page: 19/2
Printing date: 12.0	5.2021	Date of issue: 20.04.2021	
	Chemical: potassium		CAS No.: 7447-40-7
	Water hazard class (DE): Storage class (VCI):	1 12-13	
26			
30 (J UREA Chemical: urea		CAS No.: 57-13-6
	LC50leuciscus idus/96h	>6810 mg/L	
	EC50daphnia/48h :	>10 g/L	
	Water hazard class (DE): Storage class (VCI):	1 12-13	
		12-10	
30 r	nL W1		
		<i>m thiocyanate</i>	CAS No.: 593-84-0
		lasting effects. Avoid contact of substance/mixture to er t be labelled with P phrases until 125 mL (EU 1272/2006	
	PNEC (fresh water) : PNEC = Predicted No Effected Concentr		,
	LC50 _{fish/96h} :	[4d] 89.1 mg/L	
	EC50daphnia/48h : IC50scenedesmus guadricauda/72h :	42.4 mg/L 130 mg/L	
	EC10pseudomonas putita/16h	[10d] 200 mg/L	
	Water hazard class (DE):	3	
	Dispersion coefficient _{(octanol-wate}		
	Storage class (VCI):	12	
10	nL W3		
	Chemical: Triton® X-		CAS No.: 9002-93-1
		ting effects. Avoid contact of substance/mixture to envir	
	Water hazard class (DE):	t be labelled with H and P phrases until 125 mL (EU 127 1 WGK No.: n.n.	2/2008 Annex I - 1.5.2).
	Storage class (VCI):	12-13	
30	nL W4		
		ffer solution	CAS No.: -
	Storage class (VCI):	12	
80	nL W5		
001		/mixture < 1%	CAS No.: -
	Water hazard class (DE):	1	
	Storage class (VCI):	12-13	
30	nL W6		
•••	Chemical: potassium	chloride	CAS No.: 7447-40-7
	Water hazard class (DE):	1	
	Storage class (VCI):	12-13	
2.2 Persis	tence and degradability		
not nece			
2.3 Bioac	cumulative potential		
not nece	•		
2.4 Mobili	ty in soil		
not nece	•		
	s of PBT and vPvB asses	sement	
	available	Somethe	
	adverse effects		
	onal data available		
no adult			



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SECTION 13: Disposal considerations

Do not collect in acidic waste. May form toxic gases.

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. Empty containers of corrosive reagents prior to disposal, rinse with water.

SECTION 14: Transport information

14.1 - 14.4: No dangerous goods according the transport regulations (Ethanol: ADR SI144/ IATA A58)

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

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

Look for your country-specific regulations.

15.2 Chemical safety assessment

not necessary for these small amounts ---

SECTION 16: Other information

16.1 List of H and P phrases

16.1.1	List of relevant H phrases		
	H226	Flammable liquid and vapour.	
	H302	Harmful if swallowed.	
	H315	Causes skin irritation.	
	H318	Causes serious eye damage.	
	H411	Toxic to aquatic life with long lasting effects.	
	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.	
	P264W	Wash with water thoroughly after handling.	
	P273	Avoid release to the environment.	
	P280sh	Wear protective gloves/eye protection.	
	P301+312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.	
	P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to	
		do. Continue rinsing.	
	P310	Immediately call a POISON CENTER/doctor.	
	P330	Rinse mouth.	

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 KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

Revisions/Updates

Reason for Revision: 2016-03 Adaptation of regulation 1221/2015/EU 2017-11 Adaption of ECHA Registration dossier

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