MACHEREY-NAGEI



Safety Data Sheet

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

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

1.1 **Product identifier**

> REF Product name

740130.10 NucleoSpin RNA Stool (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 6 mL NucleoZOL 1 x 200 U rDNase, RNase free (lyo) 1 x 7 mL Reaction Buffer for rDNase 1 x 10 mL RST1 1 x 13 mL RST2 1 x 6 mL RST3 1 x 10 mL RST4 1 x 6 ml RST5 10 x Bead Tubes Type A 1 x 13 mL RNase-free H₂ O

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

Relevant identified uses Product for analytical use.

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

1.3 Details of the supplier of the safety data sheet

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

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

1.4 Emergency telephone number

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

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

SECTION 2: Hazard identification

Classification of the complete product 2.0



GHS02

DANGER





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

GHS08

Signal word

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GHS05 GHS06



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

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Hazard identification	Hazard classes/categories
H225	Flam. Liq. 2
H226	Flam. Liq. 3
H301	Acute Tox. 3 oral
H302	Acute Tox. 4 oral
H311	Acute Tox. 3 derm.
H314	Skin Corr. 1B
H319	Eye Irrit. 2
H331	Acute Tox. 3 inh.
H334	Resp. Sens. 1
H335	STOT SE 3
H341	Muta. 2
H351	Carc. 2
H373	STOT RE 2
H412	Aquatic Chronic 3

2.1 Classification of the substance or mixture

6 mL NucleoZOL



Signal word

Hazard identification	Hazard classes/categories
H301	Acute Tox. 3 oral
H302	Acute Tox. 4 oral
H311	Acute Tox. 3 derm.
H314	Skin Corr. 1B
H331	Acute Tox. 3 inh.
H341	Muta. 2
H373	STOT RE 2
H412	Aquatic Chronic 3

DANGER

200 U rDNase, RNase free (lyo)

	GHS08
Signal word	DANGER
Hazard identification	Hazard classes/categories
H334	Resp. Sens. 1
7 mL Reaction Buffer for rDNase	
Signal word	Do not need labelling as hazardous -
No hazard class	
10 mL RST1	
Signal word	Do not need labelling as hazardous -

No hazard class

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13 mL RST2		
	GHS02 GHS07 GHS08	
Signal word	DANGER	
Hazard identification	Hazard classes/categories	
H225 H319	Flam. Liq. 2 Eye Irrit. 2	
H335 H351	STOT SE 3 Carc. 2	
6 mL RST3		
	GHS02 GHS07	
Signal word	WARNING	
Hazard identification	Hazard classes/categories	
H226 H302	Flam. Liq. 3 Acute Tox. 4 oral	
10 mL RST4		
	GHS02	
Signal word	WARNING	
Hazard identification	Hazard classes/categories	
H226	Flam. Liq. 3	
6 mL RST5		
Signal word	Do not need labelling as hazardous	
No hazard class		
Bead Tubes Type A		
Signal word	Do not need labelling as hazardous -	
No hazard class		
13 mL RNase-free H ₂ O		
Signal word	Do not need labelling as hazardous -	
No hazard class		

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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.

6 mL NucleoZOL



Signal word: DANGER

H301, H311, H314, H331, H341, H412

Toxic if swallowed. Toxic in contact with skin. Causes severe skin burns and eye damage. Toxic if inhaled. Suspected of causing genetic defects. Harmful to aquatic life with long lasting effects.

P201, P260sh, P280sh, P301+310, P303+361+353, P305+351+338, P405

Obtain special instructions before use. Do not breathe dust/vapours. Wear protective gloves/eye protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up.

200 U rDNase, RNase free (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.

7 mL Reaction Buffer for rDNase

Do not need labelling as hazardous Signal word: -

10 mL RST1

Do not need labelling as hazardous Signal word: -

13 mL RST2



Signal word: DANGER

H351 Suspected of causing cancer.

P201, P280sh Obtain special instructions before use. Wear protective gloves/eye protection.



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6 mL RST3



GHS07 Signal word: WARNING

10 mL RST4



Signal word: WARNING

6 mL RST5

Do not need labelling as hazardous Signal word: -

Bead Tubes Type A

Do not need labelling as hazardous Signal word: -

13 mL RNase-free H₂ O

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.). ---

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 severe after oral intake, inhalation of vapours, skin contact, impairments of health or can lead to death even when only ingested in small quantities. Cause after oral intake, inhalation of vapours/dust, 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. Suspected of causing genetic defects. Suspected of causing cancer.

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

6 mL NucleoZOL



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rinting date: 12.05.2021	Date of issue: 12.	.04.2021	
Chemical: pheno	I		CAS No.: 108-95-2
Classification:		Acute Tox. 3 derm., H	314, Skin Corr. 1B, H331, Acute Tox. 3 inh.,
H341, Muta. 2, H373	, STOT RE 2		
Formula:	C ₆ H ₆ O; C ₆ H ₅ -OH		
Pseudonym:	carbolic acid, hydroxybenzene,	phenyl alcohol, pheny	l hydroxide
TSCA Inventory:	listed		-
REACH Reg. No.:	01-2119471329-32-xxxx		
EC No.:	203-632-7	Indice No.:	604-001-00-2
RTECS:	SJ3325000	MFCD:	-
KE No.:	KE-28209, >5% Toxic 97-1-332	2	
Concentration:	30 - <60 %		
acc. CLP (GHS):		Acute Tox, 3 derm., H	314, Skin Corr. 1B, H331, Acute Tox. 3 inh.,
H341, Muta. 2, H373		·····,··	
Chemical: quanic	linium thiocyanate		CAS No.: 593-84-0
		Acuto Tox 4 dorm	
Classification:		Acute 10X. 4 defiii., H	314, Skin Corr. 1B, H332, Acute Tox. 4 inh.,
H412, Aquatic Chron			
Formula:	$C_2 H_6 N_4 S$		
Pseudonym:	guanidine rhodanide		
TSCA Inventory:			
REACH Reg. No.:	01-2120735072-65-0001	las di sur Al	C4E 004 00 0
EC No.:	209-812-1	Indice No.:	615-004-00-3
RTECS:	XL1225000	MFCD:	00013027
KE No.:	not listed		
Concentration:	30 - <45 %		
acc. CLP (GHS):	H302, Acute Tox. 4 oral, H412,	, Aquatic Chronic 3	
Chemical: colour	dye(s)		CAS No.: -
Classification:	No criteria for classification or naming	of chemical not required.	
TSCA Inventory:	all listed, <1%		
Concentration:	< 0.10 %		
acc. CLP (GHS):	The criteria for classification are not ful	filled.	
200 LL - DNaca Bhase free (I)			
200 U rDNase, RNase free (I Chemical: rDNas			CAS No.: 9003-98-9
Classification:	H334, Resp. Sens. 1		
Formula:	Enzyme Comm. No. 3.1.21.1, _{ol}	rigin, alanad	
Pseudonym:	Nuclease, deoxyribo-	rigin: cioned	
TSCA Inventory:	listed		
EC No.:	232-667-0		
RTECS:	RF0750000		
KE No.:	KE-09612		
Concentration:	90 - <100 %		
acc. CLP (GHS):	H334, Resp. Sens. 1		
7 mL Reaction Buffer for rDI	Nase		
Chemical: chemi	cals/mixture < 2%		CAS No.: -
Classification:	No criteria for classification or naming	of chemical not required	
TSCA Inventory:	all listed, <2%		
KE No.:	listed		
Concentration:	1 - <2 %		
acc. CLP (GHS):	The criteria for classification are not ful	filled.	
40			
10 mL RST1			
	cals/mixture < 2%		CAS No.: -
Classification:	No criteria for classification or naming of	of chemical not required.	
TSCA Inventory:	all listed, <2%		
KE No.:	listed		
Concentration:	1 - <2 %		
acc. CLP (GHS):	The criteria for classification are not ful	filled.	



Fax:

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REF: 740130.10		NucleoSpin RNA Sto		Page: 7/
Printing date: 12.05.2021		Date of issue: 12.04.	2021	
	hemical: 1,4-dia			CAS No.: 123-91-1
-	lassification: ormula:	H225, Flam. Liq. 2, H319, Eye Irrit. C ₄ H ₈ O ₂	2, H335, STOT SE	E 3, H351, Carc. 2
P	seudonym:	diethylene dioxide; diethylene ethe	r; p-dioxane	
	SCA Inventory:	listed		
	EACH Reg. No.: C No.:	01-2119462837-26-0001 204-661-8	Indice No.:	603-024-00-5
	TECS:	JG8225000	MFCD:	00006571
	E No.:	KE-10463		
	oncentration: cc. CLP (GHS):	90 - <100 % H225, Flam. Liq. 2, H319, Eye Irrit.		E 2 H251 Caro 2
a	C. CLF (GH3).	HZZO, FIAIII. LIQ. 2, HOTO, EYE IIII.	2, 1335, 3101 3	E 3, H351, Calc. 2
6 mL RST	3			
		line hydrochloride		CAS No.: 50-01-1
	lassification: ormula:	H302, Acute Tox. 4 oral, H315, Sk CH ₆ CIN ₃	in Irrit. 2, H319, Eye	e Irrit. 2
	seudonym:	guanidinium chloride		
Т	SCA Inventory:	listed		
	EACH Reg. No.:	01-2119977063-35-0005	hadler M	
=	C No.: TECS:	200-002-3 MF4300000	Indice No.: MFCD:	607-148-00-0 00013026
	E No.:	KE-18111		00013020
C	oncentration:	24 - <36 %		
a	cc. CLP (GHS):	H302, Acute Tox. 4 oral		
С	hemical: ethand			CAS No.: 64-17-5
0		tured with 1%IPA/1%MEK, acc.2016	6/1867/EU)	
	lassification: ormula:	H225, Flam. Liq. 2 C ₂ H ₆ O; C ₂ H ₅ OH		
	seudonym:	ethyl alcohol, methylated spirit		
Т	SCA Inventory:	listed		
	EACH Reg. No.:	01-2119457610-43-xxxx	la dia a Nia	000 000 00 F
	C No.: TECS:	200-578-6 KQ6300000	Indice No.: MFCD:	603-002-00-5 00003568
	E No.:	KE-13217	WI OD.	0000000
	oncentration:	35 - <55 %		
a	cc. CLP (GHS):	H226, Flam. Liq. 3		
10 mL RS1	Γ4			
	0	dinium thiocyanate		CAS No.: 593-84-0
	lassification:		ute Iox. 4 derm., H	1314, Skin Corr. 1B, H332, Acute Tox. 4 inh.,
	412, Aquatic Chror ormula:	C ₂ H ₆ N ₄ S		
P	seudonym:	guanidine rhodanide		
	SCA Inventory:	listed		
	EACH Reg. No.: C No.:	01-2120735072-65-0001 209-812-1	Indice No.:	615-004-00-3
	TECS:	XL1225000	MFCD:	00013027
	E No.:	not listed		
	oncentration:	5 - <10 %		
a	cc. CLP (GHS):	The criteria for classification are not fulfilled		
С	hemical: <i>ethan</i> d			CAS No.: 64-17-5
C	dena) lassification:	tured with 1%IPA/1%MEK, acc.2016 H225, Flam. Lig. 2	/1867/EU)	
	ormula:	$C_2 H_6 O; C_2 H_5 OH$		
P	seudonym:	ethyl alcohol, methylated spirit		
	SCA Inventory:	listed		
	EACH Reg. No.: C No.:	01-2119457610-43-xxxx 200-578-6	Indice No.:	603-002-00-5
	TECS:	KQ6300000	MFCD:	00003568
	E No.:	KE-13217		
	oncentration:	35 - <55 %		
a	cc. CLP (GHS):	H226, Flam. Liq. 3		



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6 n	nL RST5			
011		icals/mixture < 1% No criteria for classification or naming of chemical not required. all listed, <1% listed 0.1 - <1 % The criteria for classification are not fulfilled.	CAS No.: -	
Be	ad Tubes Type A Chemical: Ceran Classification: TSCA Inventory: Concentration: acc. CLP (GHS):	nic particles No criteria for classification or naming of chemical not required. not applicable 95 - <100 % The criteria for classification are not fulfilled.	CAS No.: -	
13	mL RNase-free H ₂ O 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. H2 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	
		added with water [CAS No. 7732-18-5] to 100%. 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. Take to a doctor, in a raised position if there are breathing difficulties.

4.1.1 After SKIN Contact

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

4.1.2 After EYE Contact

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

4.1.3 After INHALATION of vapours

After inhalation of foam or vapour fresh air should be inhaled. Keep airways free. If vomiting and if insensible place patient in recovery position and keep airways free. Administer a Dexamethasone spray as soon as possible. Ensure quiet, warmth, and provide resuscitation if necessary. In the event of respiratory distress ensure that the patient inhales oxygen. Secure the breathing, heart and circulatory function. ---

4.1.4 After ORAL Intake

After oral intake lots of water with activated charcoal supplement should be drunk after it has been ingested. Do not induce vomiting under any circumstances. Do not make any efforts to neutralise it. Contact medical advice for possible consequences. ---

4.2 Most important symptoms and effects, both acute and delayed

Chronic Effects: May cause sensitization by skin contact, also in repeated contact of small amounts. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

CMR Effects: Suspected of causing genetic defects. Suspected of causing cancer. ---

4.3 Indication of any immediate medical attention and special treatment needed

CORROSIVE DAMAGE: After SKIN CONTACT rinse with water for a long time. Efforts to neutralise the substance can frequently make matters worse. Apply glucocorticosteroides following inflammatory reactions. After EYE CONTACT rinse immediately with plenty of water for a long time. Eyelid convulsion measures. Name the corrosive chemical. Further treatment must to be carried out by an eye specialist. After INTAKE administer aluminium oxide drug suspensions. Administer a prophylaxis to counter pulmonary oedema following the INGESTION of corrosive aerosols. In the event of RESPIRATORY DISTREES ensure that the patient inhales oxygen.

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TOXIFICATION: Treat symptomatically. Secure the breathing, heart and circulatory function. Remove the substance quickly from the body. Mechanically induce vomiting or ensure the patient eats medicinal charcoal compressed tablets or drinks aluminium oxide drug suspensions. In order to ensure rapid passage through the colon (administer 2 tablespoons of dissolved Glauber's salt). Alleviation of pain, if necessary sedation. Shock treatment. Administer a prophylaxis to counter pulmonary oedema. 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. DANGER: Highly flammable (GHS regulation). Forms 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. Spray any vapours released with water. Retent fire water. Use only acid-resistant safety equipment.

For great amount - if necessary - protective breathing apparatus which is independent of the ambient air (isolated equipment), and sealed protective clothing is necessary in the event of a large-scale formation of toxic substances.

5.4 Additional information

Danger for environment only in the event of a large-scale leakage or formation of hazardous substances. ---

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Wear suitable protective gloves (see 8.2.2). Wear eye protection, respectively face protection. Regular staff training is necessary, indicating hazards and precautions on the basis of operating instructions. Restrictions on activity must be observed.

6.2 Environmental precautions

not necessary, contains only small amounts of these substances

6.3 Methods and material for containment and cleaning up

Bind any escaping liquid with inert absorbent. And dispose in accordance to local regulations for the disposal of hazardous chemicals. Clean any contaminated equipment and floors with plenty of water. Collect small amounts of leaked liquid and flush with water into drains.

6.4 Reference to other sections

see information in section 5.4 ---

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling in accordance with the test instruction, that comes with the product. Use only in well-ventilated working areas.

3

Conditions for safe storage, including any incompatibilities

The original product package of MACHEREY-NAGEL allows a safe storage. Products containing also toxic substances should be kept locked up. Storage class (VCI): 3

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Slorage class	(VOI).
Water hazard	class (DE):

Requirements for stock rooms and containers

Keep original product packages tightly closed during handling and storage, and store in a well-ventilated place at max. 25 °C, away or preferably separate from substances with which a hazardous reaction could take place, so that they are not immediately accessible to outside parties. Use inbreakable container for transport of glass bottles.

7.3 Specific end use(s)

+49 24 21 969-0

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Product for analytical use.



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7.2

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SECTION 8: Exposure controls/personal protection

8.1 **Control parameters**

6 mL NucleoZOL Chemical: phenol PNEC(fresh water) : PNEC = Predicted No Effe	0.0077 mg/L acted Concentration	CAS No.: 108-95-2
EU value: TRGS 900 (DE):	2 ppm / 7.8 mg/m³ 2 mL/m³ / 8 mg/m³ E/e respirable	
Short-term exposure factor: skin resorptive (H), respin	=1=, H ratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely	vexcluded / (Y) certainly excluded
SUVA(CH) MAK value: SUVA(CH) BAT value: TRGS 903 (DE):	5 ppm / 19 mg/m ³ Krea U/b 250 mg/g U/b 120 _{Kreatinin} mg/g B blood, U urine, a no limitation, b end of exposition or shift	
NIOSH: NIOSH STEL: [TWA] Time-weighted ave	[skin]TWA 5 ppm / 19 mg/m ³ ; C 15.6 ppm / 60_{15min} mg/m 15.6 ppm / $60_{15 min}$ mg/m ³ rage to a reference period of 8 hours, [STEL] Short-term exposure limit rel	
OSHA:	[skin] TWA 5 ppm / 19 mg/m³	
Chemical: guanidinium th DNEL: DNEL = Derived No-Effect	[inh] 1092 µg/m³	CAS No.: 593-84-0
PNEC(fresh water) : PNEC = Predicted No Effe	42.4 μg/L ected Concentration	
NIOSH: [TWA] Time-weighted ave OSHA:	not listed rage to a reference period of 8 hours, [STEL] Short-term exposure limit rel not listed	ated to a 15-minute period
Chemical: colour dye(s)		CAS No.: -
200 U rDNase, RNase free	(lyo)	
Chemical: rDNase		CAS No.: 9003-98-9
7 mL Reaction Buffer for r Chemical: chemicals/mix		CAS No.: -
10 mL RST1 Chemical: chemicals/mix	xture < 2%	CAS No.: -
13 mL RST2 Chemical: <i>1,4-dioxane</i>		CAS No.: 123-91-1
DNEL: DNEL = Derived No-Effect	73 mg/m³ t Level (for workers)	
PNEC _(fresh water) : PNEC = Predicted No Effe	10 mg/L acted Concentration	
EU value: TRGS 900 (DE):	20 ppm / 73 mg/m ³ 20 ppm / 73 mg/m ³ E/e respirable	
Short-term exposure factor: skin resorptive (H), respin	2 (I), H, Y ratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely	v excluded / (Y) certainly excluded
SUVA(CH) MAK value: TRGS 903 (DE):	20 ppm / 72 mg/m ³ 2-Hydroxyethoxyessigsäure U/b Kreatinin 400 mg/g B blood, U urine, a no limitation, b end of exposition or shift	
		ma/m ³
OSHA	Occupational Carcinogen List Yes; TWA _{30min} 1 ppm / 3.6 rage to a reference period of 8 hours, [STEL] Short-term exposure limit rel [skin] TWA 100 ppm / 360 mg/m ³	ated to a 15-minute period
OSHA:	Occupational Carcinogen List Yes; TWA _{30min} 1 ppm / 3.6 rage to a reference period of 8 hours, [STEL] Short-term exposure limit rel [skin] TWA 100 ppm / 360 mg/m ³	ated to a 15-minute period
6 mL RST3 Chemical: guanidine hyd DNEL:	rage to a reference period of 8 hours, [STEL] Short-term exposure limit rel [skin] TWA 100 ppm / 360 mg/m ³ <i>Irochloride</i> [inh] 3.5 mg/m ³	CAS No.: 50-01-1
6 mL RST3 Chemical: guanidine hyd DNEL: DNEL = Derived No-Effect PNEC(fresh water) :	rage to a reference period of 8 hours, [STEL] Short-term exposure limit rel [skin] TWA 100 ppm / 360 mg/m ³ <i>Irochloride</i> [inh] 3.5 mg/m ³ t Level (for workers)	ated to a 15-minute period
6 mL RST3 Chemical: guanidine hyd DNEL: DNEL = Derived No-Effect	rage to a reference period of 8 hours, [STEL] Short-term exposure limit rel [skin] TWA 100 ppm / 360 mg/m ³ <i>Irochloride</i> [inh] 3.5 mg/m ³ t Level (for workers)	ated to a 15-minute period



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	[TWA] Time-weighted OSHA:	average to a reference period of 8 hours, [STEL] Short-term expo not listed	sure limit related to a 15-minute period
	Chemical: <i>ethanol</i> DNEL: DNEL = Derived No-F	[derm] 343 mg/kg; [inh] 950 mg/m³ fect Level (for workers)	CAS No.: 64-17-5
	PNEC(fresh water) : PNEC = Predicted No	· · · · · · · · · · · · · · · · · · ·	
	TRGS 900 (DE):	200 mL/m³ / 380 mg/m³ E/e respirable	
	Short-term exposure factorskin resorptive (H), re	or: 4 (II), Y spiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z)	not securely excluded / (Y) certainly excluded
	SUVA(CH) MAK value: NIOSH:	500 ppm / 960 mg/m ³ [TWA] 1000 ppm / 1900 mg/m ³ average to a reference period of 8 hours, [STEL] Short-term expo	
	OSHA:	[TWA] 1000 ppm / 1900 mg/m ³	
	10 mL RST4 Chemical: <i>guanidiniui</i>	n thiocyanate	CAS No.: 593-84-0
	DNEL: DNEL = Derived No-E	[inĥ] 1092 μg/m³ fect Level (for workers)	
		42.4 μg/L Effected Concentration	
		not listed average to a reference period of 8 hours, [STEL] Short-term expo	sure limit related to a 15-minute period
	OSHA:	not listed	
	Chemical: <i>ethanol</i> DNEL: DNEL = Derived No-E	[derm] 343 mg/kg; [inh] 950 mg/m ³ fect Level (for workers)	CAS No.: 64-17-5
	PNEC(fresh water) : PNEC = Predicted No	0.96 mg/L Effected Concentration	
	TRGS 900 (DE):	200 mL/m³ / 380 mg/m³ E/e respirable	
	Short-term exposure fact skin resorptive (H), re	or: 4 (II), Y spiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z)	not securely excluded / (Y) certainly excluded
	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-term expo	sure limit related to a 15-minute period
	OSHA:	[TWA] 1000 ppm / 1900 mg/m ³	
	6 mL RST5 Chemical: chemicals/	mixture < 1%	CAS No.: -
	Bead Tubes Type A Chemical: Ceramic pa	articles	CAS No.: -
	13 mL RNase-free H ₂ O Chemical: <i>water</i>		CAS No.: 7732-18-5
Go	xposure controls bod ventilation and extraction vel of cleanliness must be m		th floor drainage and washing facilities. The highest
2.1	Respiratory protection	ese substances for example a protection filter, class	A/AX. No additional recommendations.
2.2	Hand protection Yes, gloves according EN		PVC, natural latex, Neopren, or Nitril (f.ex. from Anso
2.3	Eye protection Yes, safety glasses acco	ding EN 166 with integrated side shields or wrap-ard	ound protection or face protection.
.2.4	Skin protection		

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Recommended to avoid clothing damage, and to avoid contamination with these hazards.

8.2.5 Personal hygiene

Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties 9.1

6 mL NucleoZOL Appearance: liquid Vapour pressure (20°C): Oxidising properties:	Colour: blue >0.46 _{25°C} hPa	Odor: aromatic
200 U rDNase, RNase free (Iyo) Appearance: solid (Iyoph.)	Colour: white	Odor: odorless
7 mL Reaction Buffer for rDNase Appearance: liquid pH: Specific gravity:	Colour: colourless 6.5-7.5 1.01 g/cm³	Odor: odorless
10 mL RST1 Appearance: liquid pH: Specific gravity:	Colour: colourless 7.5-8.5 1.02 g/cm³	Odor: odorless
13 mL RST2 Appearance: liquid Odor limit: pH: Melting point: Boiling point: Flash point: Evaporation rate _{(ether=1}) : Explosion limits: Vapour pressure (20°C): Vapour density _{(air=1}) : Specific gravity: Solubility in water: Flashing temperature: Volatiles by volume:	Colour: colourless 10-620 mg/m ³ 6-8 12 °C 101.5 °C 11 °C 7,3 1.9-22.5 Vol% 41 hPa 3,04 1.01-1.03 g/cm ³ < 2 % 375 °C 149 g/m ³	Odor: odorless
6 mL RST3 Appearance: liquid pH: Flash point: Specific gravity:	Colour: colourless 5-7 26 °C 1.0 g/cm³	Odor: alcoholic
10 mL RST4 Appearance: liquid pH: Flash point:	Colour: colourless 6.5 - 7.5 23 °C	Odor: alcoholic
6 mL RST5 Appearance: liquid pH: Specific gravity:	Colour: colourless 7-8 1.00 g/cm³	Odor: odorless
Bead Tubes Type A Appearance: solid	Colour: white	Odor: odorless



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	Particle size:	0.6-0.8 mm		
	13 mL RNase-free H 2 O Appearance: liquid pH: Specific gravity:	Colour: colourless 6-8 1.0 g/cm³	Odor: odorless	
9.2	Other information			
	Data for the other parameters of th Relevant Properties of Substanc Substances are very volantile and t	e Group	use no registration and no chemical safety r s	report is required.
SECI	FION 10: Stability and re	activity		
10.1	Reactivity no further data available.			
10.2	Chemical stability No known instability.			
10.3	Possibility of hazardous re Can react violently with organic ma	terial. Note: Can form very reactiv	e substances with oxidizing agents. Possibl	e: Contact with acids
10.5	liberates toxic gas. No further data	available.		
10.3		available.		
	liberates toxic gas. No further data Conditions to avoid			

11.1 Information on toxicological effects

Following information is valid for pure substances. Quantitative data on the toxicity of this product are not available.

6 mL NucleoZOL

Chemical:	phenol	(CAS No.: 108-95-2
TSCA Inventory:		listed	
ACGIH:		19 ppm	
Exposure Routes:		inhalation, skin absorption, ingestion, skin and/or eye cor	ntact
Target Organs:		Eyes, skin, respiratory system, liver, kidneys	
Symptoms:		irritation eyes, nose, throat, anorexia, weight loss, lassitu	de (weakness, exhaustion), muscle ache,
pain; dark urine; cya	anosis; liv	/er, kidney damage	
Japan CSCL/PRTR	₹:	Deleterious substance, PRTR: ≥1,0% class I, Japan PDS	SCL: Deleterious substance
Japan ISHL:		listed ≥0,1%/≥0,1%,	
Korea Exist.Chem.I	Inventory:	: KE-28209, >5% Toxic 97-1-332	
LD50 _{orl rat} :		317 mg/kg	
LC_Loworl hmn :		140 mg/kg	
LC50 _{inh rat} :		316 mg/m ³	
LD50 _{drm rat} :		669 mg/kg	
LD50 _{orl mus} :		270 mg/kg	
	se severe	after oral intake, inhalation of vapours, skin contact, impa	irments of health or can lead to death even
when only ingested	l in small (quantities.	
Chronic Effects: Ma	ay cause c	damage to organs through prolonged or repeated exposur	e.
Carcinogenic Effect	ts: Susper	cted of causing genetic defects.	
EU carcinogen:		Germ Cell Mutagenicity cat. 2	
TRGS 905 (DE):		M 3	
Chemical:	quanid	linium thiocyanate	CAS No.: 593-84-0
TSCA Inventory:	guarna	listed California Proposition 65 List: not I	
Australia NICNAS:		not listed Canada CEPA 1999: DSL	
Japan CSCL/PRTR		not listed, Japan PDSCL: not listed	yes
Japan ISHL:		not listed	
South Korea TCCA	۰.	not listed	
		Not listed	
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	Korea Exist.Chem.Inv LD50 _{orl rat} :		-				
	LC50 _{drm rbt} :	593 mg/kg >2000 mg/					
	LC50 _{ihl rat} :	[4h] 5.319					
	LD50 _{ipr mus} :	300 mg/kg	3				
	Acute Effects: Cause			ealth when ingested in s	mall quanti [،]	ities.	
	Chemical:	colour dye(s)			С	CAS No.: -	
	TSCA Inventory:	all listed, <	1%				
20	00 U rDNase, RNa	se free (lyo)					
	Chemical:	rDNase			C	CAS No.: 9003-98-9	
	TSCA Inventory:	listed					
	Japan CSCL/PRTR:						
	Japan ISHL: Korea Exist.Chem.Inv	not listed					
				ingested in small quantit	ties		
				t, also in repeated conta		amounts. May cause a	llergy or asthma
	symptoms or breathir			· ·		÷	
ז 7	mL Reaction Buff		- 20/		C	CAS No.: -	
	Chemical: TSCA Inventory:	chemicals/mixture all listed, <			U	AS NO.: -	
	Korea Exist.Chem.Inv		270				
10	0 mL RST1						
10	Chemical:	chemicals/mixture	- 70/		C	CAS No.: -	
	TSCA Inventory:	all listed, <				AS NO	
	Korea Exist.Chem.Inv	,	270				
13	3 mL RST2						
	Chemical:	1,4-dioxane			C	CAS No.: 123-91-1	
	TSCA Inventory:	listed	Cali	ifornia Proposition 65 Lis			
	Exposure Routes:		, skin absorption,	n, ingestion, skin and/or e	eye contact	:t	
	Target Organs:			stem, liver, kidneys, [in a			
	Symptoms:			throat; drowsiness, head	dache; nau	isea, vomiting; liver dam	nage; kidney
	failure; [potential occu Australia NICNAS:			Canada CEPA 1999		~	
	Japan CSCL/PRTR:			Designated Chemical S			rR·>1 0% class
	Japan ISHL:			e 57-1+2 (Labelling&SD			IX. = 1,0 /0 01000
	South Korea TCCA:	not listed			•··· ,	,	
	Korea Exist.Chem.Inv						
	LD50 _{orl rat} :	5150 mg/kg					
	LC50 _{ihl rat} :		nin] 155 mg/L		I- nontor	- !	
	Carcinogenic Effects:			npairments of health whe	en ingesteu	I In small quantities.	
	EU carcinogen:		enicity cat. 2				
	TRGS 905 (DE):	K4, R _F C	110.1.j 2				
6 /	mL RST3						
		guanidine hydrochi				CAS No.: 50-01-1	
	TSCA Inventory:	listed	Cali	ifornia Proposition 65 Lis			
	Australia NICNAS:	not listed	Innan PDSCI	Canada CEPA 1999	J: DSL yes		
	Japan CSCL/PRTR: Japan ISHL:	not listed, a	Japan PDSCL: r	10t listed			
	South Korea TCCA:						
	Korea Exist.Chem.Inv						
	LD50 _{orl rat} :	475-907 m	ng/kg				
	LC50 _{ihl rat} :		•7655 µg/m³				
	LD50 _{drm rbt} : Acute Effects: Cause	2000 mg/kg e after oral intake, im		ealth when ingested in s	small quant [;]	ities.	
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			ieander-Str. 6–{	8 · 52355 Düren · Germ	nany		
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Fax: +49	9 24 21 969-199	Fax: +41 62 38	8 55 05	Fax: +33 388 51 7	76 88	Fax: +1 484 821	1272
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Chemical: ethan	ol	CAS No.: 64-17-5
TSCA Inventory:	listed	California Proposition 65 List: not listed
ACGIH:	1000 ppm	
Exposure Routes:		i, skin and/or eye contact
Target Organs:		ory system, central nervous system, liver, blood, reproductive system
Symptoms:		nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; cough;
liver damage; anemia; repro		
Australia NICNAS:	not listed	Canada CEPA 1999: DSL yes
Japan CSCL/PRTR:	not listed, Japan PD	
Japan ISHL: South Korea TCCA:		Article 57-2 (SDS required)
Korea Exist.Chem.Inventory	not listed	
LD50 _{orl rat} :	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 ³	
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	
10 mL RST4		
	dinium thiocyanate	CAS No.: 593-84-0
TSCA Inventory:	listed	California Proposition 65 List: not listed
Australia NICNAS:	not listed	Canada CEPA 1999: DSL yes
Japan CSCL/PRTR:	not listed, Japan PD	OSCL: 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/m ³	
LC50 _{ihl rat} : LD50 _{ipr mus} :	[4h] 5.319 mg/L 300 mg/kg	
LD50ipr mus -	500 mg/kg	
Chemical: ethan	ol	CAS No.: 64-17-5
TSCA Inventory:	listed	California Proposition 65 List: not listed
ACGIH:	1000 ppm	
Exposure Routes:		, skin and/or eye contact
Target Organs:		pry system, central nervous system, liver, blood, reproductive system
Symptoms:		nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; cough;
liver damage; anemia; repro Australia NICNAS:	not listed	Canada CEPA 1999: DSL yes
Japan CSCL/PRTR:	not listed, Japan PD	
Japan ISHL:		Article 57-2 (SDS required)
South Korea TCCA:	not listed	······································
Korea Exist.Chem.Inventory		
LD50 _{orl rat} :	6200 mg/kg	
LC Lowihl apa:	21.9 g/m ³	
LC Low _{orl 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 3450 mg/kg	
LD50oral mouse :	3450 mg/kg	
TRGS 905 (DE):	K5, M5, R _F C	
6 mL RST5		
	a la minterra dal	
Chemical: chemi TSCA Inventory:	cals/mixture < 1% all listed, <1%	CAS No.: -
Korea Exist.Chem.Inventory		



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		But 6116600. 12.04.2021		
I	Bead Tubes Type A			
	Chemical: Ceramic part TSCA Inventory: not a	ticles Ipplicable	CAS No.: -	
	-			
	13 mL RNase-free H ₂ O			
	Chemical: water		CAS No.: 7732-18-5	
	TSCA Inventory: listed			
	Korea Exist.Chem.Inventory: KE-3	5400		
SECTIC	N 12: Ecological inform	ation		
12.1	Toxicity			
	Following information is valid for pu	re substances.		
	6 mL NucleoZOL			
	Chemical: phenol	interests any ironmont	CAS No.: 108-95-2	
	Avoid contact of substance/mi			
	PNEC (fresh water) : PNEC = Predicted No Effected Conce	entration		
	LC50 _{daphnia} magna/48h :	EC10 _{16d} : 0,46 mg/L		
	LC50 _{fish/96h} : EC50 _{daphnia} /48h :	8.9 mg/L 4.24-10.7/ 10.2-15.5 mg/L		
	EC50pseudokirchneriella subcapitat			
	IC50scenedesmus quadricauda/72h	: EC50: 187-279 mg/L		
	Water hazard class (DE): Dispersion coefficient _{(octanol-w}	2 WGK No.: 0170		
	Storage class (VCI):	ater) - 1.47 6.1 A		
		nium thiocyanate	CAS No.: 593-84-0	
		ng lasting effects. Avoid contact of substance/n not be labelled with P phrases until 125 mL (Ε 42.4 μg/L		
	LC50fish/96h :	[4d] 89.1 mg/L		
	EC50daphnia/48h :	42.4 mg/L		
	IC50scenedesmus quadricauda/72h	: 130 mg/L		
	EC10 _{pseudomonas putita/16h} :	[10d] 200 mg/L		
	Water hazard class (DE): Dispersion coefficient _{(octanol-w}	3 _{ater)} : [pH 5.1] -1.11		
	Storage class (VCI):	12		
	Chemical: colour d	ye(s)	CAS No.: -	
	200 U rDNase, RNase free (Iyo) Chemical: rDNase		CAS No.: 9003-98-9	
	Water hazard class (DE):	1 WGK No.: n.n.		
	Storage class (VCI):	13		
	7 mL Reaction Buffer for rDNase			
	Chemical: chemica Water hazard class (DE):	nls/mixture < 2% 1	CAS No.: -	
	Storage class (VCI):	12-13		
	10 mL RST1			
		ls/mixture < 2%	CAS No.: -	
	Water hazard class (DE):	1		
	Storage class (VCI):	12-13		
	13 mL RST2 Chemical: 1,4-diox	200	CAS No.: 123-91-1	
	PNEC _(fresh water) :	10 mg/L	CAS NO.: 123-91-1	
	PNEC = Predicted No Effected Conce	entration		
	Bio Toxicity:	1/2.1/2.6		
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LC50fish/96h :	[21d] 100 mg/L	
EC50 _{daphnia} /48h :	1 g/L	
	[72h] 1 g/L	
Water hazard class (DE):	2 WGK No.: 0086 -0.42	
Dispersion coefficient _(octanol-water) : Storage class (VCI):	3	
6 mL RST3		
Chemical: guanidine hydr	rochloride	CAS No.: 50-01-1
PNEC (fresh water) - PNEC = Predicted No Effected Concentration	-	
LC50leuciscus idus/96h :	1759 mg/L	
LC50fish/96h :	[4d] 690-1850; [48h] 1758-2420 mg/L	
EC50 _{daphnia} /48h :	70.2 mg/L	
EC10 _{pseudomonas putita/16h} : Water hazard class (DE):	[72h] 11.8-33.5 mg/L 1 WGK No.: 0788	
Storage class (VCI):	12	
Chemical: ethanol		CAS No.: 64-17-5
PNEC(fresh water) : PNEC = Predicted No Effected Concentration	0.96 mg/L	
LC50daphnia magna/48h :	>100 mg/L	
LC50pimephales promelas/96h	13400 - 15100 mg/L	
LC50 _{leuciscus} idus/96h : LC50fish/96h :	[48h] 8140 mg/L 13 g/L	
	9.3-14.2 g/L	
IC50 _{scenedesmus} quadricauda/72h	[7d] 5000 mg/L	
EC10 _{pseudomonas} putita/16h	[EC5] 6500 mg/L	
Water hazard class (DE): Dispersion coefficient _(octanol-water) :	1 WGK No.: 0096 -0.31	
Storage class (VCI):	3	
10 mL RST4		
Chemical: guanidinium th		CAS No.: 593-84-0
PNEC(fresh water) : PNEC = Predicted No Effected Concentration	42.4 µg/L	
LC50fish/96h :	[4d] 89.1 mg/L	
EC50daphnia/48h :	42.4 mg/L	
IC50 _{scenedesmus} quadricauda/72h	130 mg/L	
EC10pseudomonas putita/16h	[10d] 200 mg/L	
Water hazard class (DE):	3	
Dispersion coefficient _(octanol-water) : Storage class (VCI):	[pH 5.1] -1.11 12	
Chemical: ethanol		CAS No.: 64-17-5
PNEC(fresh water) : PNEC = Predicted No Effected Concentration	0.96 mg/L	
LC50 _{daphnia} magna/48h :	>100 mg/L	
LC50pimephales promelas/96h :	13400 - 15100 mg/L	
LC50leuciscus idus/96h	[48h] 8140 mg/L	
LC50fish/96h	13 g/L 9.3-14.2 g/L	
	[7d] 5000 mg/L	
EC10 _{pseudomonas} putita/16h	[EC5] 6500 mg/L	
Water hazard class (DE):	1 WGK No.: 0096	
Dispersion coefficient _(octanol-water) : Storage class (VCI):	-0.31 3	
6 mL RST5		
Chemical: chemicals/mixt	ure < 1%	CAS No.: -
Water hazard class (DE):	1	
Storage class (VCI):	12-13	

Bead Tubes Type A



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	Chemical: Storage class (VCI):	Ceramic particles 12-13	CAS No.: -	
	13 mL RNase-free H ₂ O Chemical:	water	CAS No.: 7732-18-5	
12.2	Persistence and degra	dability		
12.3	Bioaccumulative poter not necessary	ntial		
12.4	Mobility in soil not necessary			
12.5				
12.6	Other adverse effects no additional data available			

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). Close container tightly.

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.

Dispose of contents/container to regulated waste treatment.

SECTION 14: Transport information

14.1 UN number: 14.3 Class: Road transport	1992 3	14.2 UN proper shipping name: Flammable liquid, toxic, n.o.s. (phenol, 1,4-dioxane, ethanol solution) Additionally class: 6.1 _ 14.4 Packing group:		
Classification code:	FT1			
Limited Quantity:	1 L	Tunnel restriction code	:	E
Excepted Quantity: Air transport	E 2	Special instructions: 2	274	
PAX:	352	max. weight PAX:	1 L	
CAO:	364	max. weight CAO: 6	50 L	
Maritime transport		-		
EmS:	F-E, S	-D Storage category: E	3	

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.

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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	1 List of relevant H phrases				
	H225	Highly flammable liquid and vapour.			
	H226	Flammable liquid and vapour.			
	H301	Toxic if swallowed.			
	H302	Harmful if swallowed.			
	H311	Toxic in contact with skin.			
	H314	Causes severe skin burns and eye damage.			
	H319	Causes serious eye irritation.			
	H331	Toxic if inhaled.			
	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.			
	H335	May cause respiratory irritation.			
	H341	Suspected of causing genetic defects.			
	H351	Suspected of causing cancer.			
	H373	May cause damage to organs through prolonged or repeated exposure.			
	H412	Harmful to aquatic life with long lasting effects.			
16.1.2	List of relevant P phrases				
	P201	Obtain special instructions before use.			
	P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.			
	P233	Keep container tightly closed.			
	P260sh	Do not breathe dust/vapours.			
	P261sh	Avoid breathing dust/vapours.			
	P264W	Wash with water thoroughly after handling.			
	P273	Avoid release to the environment.			
	P280sh	Wear protective gloves/eye protection.			
	P301+310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.			
	P301+312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.			
	P302+352	IF ON SKIN: Wash with plenty of water.			
	P303+361+353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].			
	P304+340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.			
	P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to			
	50/0	do. Continue rinsing.			
	P310	Immediately call a POISON CENTER/doctor.			
	P311	Call a POISON CENTER/doctor.			
	P312	Call a POISON CENTER/doctor if you feel unwell.			
	P330	Rinse mouth.			
	P342+311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.			
	P403+233	Store in a well-ventilated place. Keep container tightly closed.			
	P405	Store locked up.			
16.2	Training advice				

16.2 i raining advice

Multiple safety training of staffs about danger and protection by using hazards in working area. Additionally training and introduction of staffs for using these products.

16.3 Recommended restriction on use

Only for professional user.

Look about employee restrictions for young people (f. ex. 94/33/EC or DE § 22 JArbSchG)! Look about employee restrictions for pregnant women and nursing women (f.ex. 92/85/EEC or for DE §§ 11-13 MuSchG 2017)! An individual package of this product or test kit has a moderate hazardous potential.

16.4 Further information

MACHEREY-NAGEL GmbH & Co. KG provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

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16.5 Sources of key data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS Regulation 437/2013/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 Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work TRGS 905, German engineering rules governing carcinogens and mutagens, updated 03/18 TRGS 907, German engineering rules governing listing of substances and causes of sensitizations, updated November 2011 KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

Revisions/Updates

Reason for Revision: 2016-03 Adaptation of regulation 1221/2015/EU 2017-08 Adaption of new ethanol denaturation 2016/1867/EU 2017-11 Adaption of ECHA Registration dossier

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