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

740962.20 NucleoSpin RNA Midi (20)

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 7 mL DRB (OEM) 1 x 50 mL MDB 1 x 125 mL RA1 1 x 25 mL RA3 1 x 80 mL RAW2 1 x 200 U, Size D, rDNase 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

1.4 Emergency telephone number

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

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

SECTION 2: Hazard identification

2.0 Classification of the complete product



SHS02

Signal word	DANGER

Hazard identification	Hazard classes/categories
H226	Flam. Liq. 3
H302	Acute Tox. 4 oral
H334	Resp. Sens. 1
H412	Aquatic Chronic 3

2.1 Classification of the substance or mixture

7 mL DRB (OEM)

Do not need labelling as hazardous



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Signal word		
No hazard class		
50 mL MDB		
	GHS02	
Signal word	WARNING	
Hazard identification	Hazard classes/categories	
H226	Flam. Liq. 3	
125 mL RA1		
	\Diamond	
	GHS07	
Signal word	WARNING	
Hazard identification	Hazard classes/categories	
H302	Acute Tox. 4 oral	
H412	Aquatic Chronic 3	
25 mL RA3		
Signal word	Do not need labelling as hazardous -	
No hazard class		
80 mL RAW2		
	GHS02 GHS07	
Signal word	WARNING	
Hazard identification H226	Hazard classes/categories Flam. Liq. 3	
H302	Acute Tox. 4 oral	
200 U, Size D, rDNase		
	GHS08	
Signal word	DANGER	
Hazard identification	Hazard classes/categories	
H334	Resp. Sens. 1	
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13 mL RNase-free H₂ O

Do not need labelling as hazardous

No hazard class

Signal word

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.

7 mL DRB (OEM)

Do not need labelling as hazardous Signal word: -

50 mL MDB



Signal word: WARNING

125 mL RA1



Signal word: WARNING

H412 Harmful to aquatic life with long lasting effects.

25 mL RA3

Do not need labelling as hazardous Signal word: -

80 mL RAW2



GHS02 Signal word: WARNING

200 U, Size D, rDNase



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H334

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

P261sh, P342+311 Avoid breathing dust/vapours. If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

13 mL RNase-free H₂ O

Do not need labelling as hazardous Signal word: -

2.3 Other hazards

Possible hazards from physicochemical properties

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 Cause after oral intake, 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 PBT: vPvB: not applicable Other hazards

SECTION 3: Composition/information on ingredients

3.1 Substances or 3.2 Mixtures

7 mL DRB (OEM)

Chemical: chemic	als/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 fulfilled.	

50 mL MDB

. N	1DB			
	Chemical: guanid	linium thiocyanate		CAS No.: 593-84-0
	Classification:	H302, Acute Tox. 4 oral, H312, Acu	te Tox. 4 derm., H314,	Skin Corr. 1B, H332, Acute Tox. 4 inh.,
	H412, Aquatic Chron	ic 3		
	Formula:	C ₂ H ₆ N ₄ S		
	Pseudonym:	guanidine rhodanide		
	TSCA Inventory:	listed		
	- 0	01-2120735072-65-0001		
	EC No.:	209-812-1	Indice No.:	615-004-00-3
	RTECS:	XL1225000	MFCD:	00013027
	KE No.:	not listed		
	Concentration:	5 - <10 %		
	acc. CLP (GHS):	The criteria for classification are not fulfilled.		
	Chemical: ethano	o/ (diluted < 20 %)		CAS No.: 64-17-5d
		tured 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		
	,	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		
	· · ·	-		



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125 mL RA1			
	nidinium thiocyanate		CAS No.: 593-84-0
Classification:		, Acute Tox. 4 derm., H	314, Skin Corr. 1B, H332, Acute Tox. 4 inh.,
H412, Aquatic Chr			
Formula:	$C_2 H_6 N_4 S$		
Pseudonym: TSCA Inventory:	guanidine rhodanide listed		
REACH Reg. No.:			
EC No.:	209-812-1	Indice No.:	615-004-00-3
RTECS:	XL1225000	MFCD:	00013027
KE No.:	not listed		
Concentration:	45 - <60 %	A mustic Observice O	
acc. CLP (GHS):	H302, Acute Tox. 4 oral, H412	, Aquatic Chronic 3	
25 mL RA3			
	micals/mixture < 1%		CAS No.: -
Classification:	No criteria for classification or naming	of chemical not required.	
TSCA Inventory: KE No.:	all listed, <1% listed		
Concentration:	0.1 - <1 %		
acc. CLP (GHS):	The criteria for classification are not fu	lfilled.	
80 mL RAW2 Chemical: <i>qua</i> i	nidine hydrochloride		CAS No.: 50-01-1
Classification:	H302, Acute Tox. 4 oral, H315	, Skin Irrit. 2. H319. Eve	
Formula:	CH ₆ ClN ₃	,	<u>-</u>
Pseudonym:	guanidinium chloride		
TSCA Inventory:	listed		
REACH Reg. No.:		Indian No.	607 149 00 0
EC No.: RTECS:	200-002-3 MF4300000	Indice No.: MFCD:	607-148-00-0 00013026
KTECS. KE No.:	KE-18111	WIFCD.	00013020
Concentration:	24 - <36 %		
acc. CLP (GHS):	H302, Acute Tox. 4 oral		
Chemical: etha			CAS No.: 64-17-5
	natured with 1%IPA/1%MEK, acc.2	2016/1867/EU)	
Classification: Formula:	H225, Flam. Liq. 2 C ₂ H ₆ O; C ₂ H ₅ OH		
Pseudonym:	ethyl alcohol, methylated spirit		
TSCA Inventory:	listed		
REACH Reg. No.:			
EC No.:	200-578-6	Indice No.:	603-002-00-5
RTECS:	KQ6300000	MFCD:	00003568
KE No.: Concentration:	KE-13217 20 - <35 %		
acc. CLP (GHS):	H226, Flam. Liq. 3		
200 U, Size D, rDNase			
Chemical: <i>rDN</i>	ase		CAS No.: 9003-98-9
Classification:	H334, Resp. Sens. 1		
Formula:	Enzyme Comm. No. 3.1.21.1,	origin: cloned	
Pseudonym:	Nuclease, deoxyribo-		
TSCA Inventory: EC No.:	listed		
RTECS:	232-667-0 RF0750000		
KE No.:	KE-09612		
Concentration:	90 - <100 %		
acc. CLP (GHS):	H334, Resp. Sens. 1		
13 mL RNase-free H ₂ O			
_			



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	Chemical: wa 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 %	o.: 7732-18-5
3.3	Remarks		
	When not listed, mixtures	are added with water [CAS No. 7732-18-5] to 100%.	
	List of H and P phrases: s	ee section 16.1	
SECT	ION 4: First aid meas	ures	
4.1			
4.1		nger zone to fresh air immediately. Ensure quiet, warmth, and provide re ice. Take to a doctor, in a raised position if there are breathing difficulties	
4.1.1	After SKIN Contact Remove contaminated clc soap.	thing. Rinse the affected skin or mucous membrane thoroughly under ru	nning water. (If possible) use
4.1.2	After EYE Contact After contact with the eyes running water (protect inta	rinse thoroughly under running water with the eyelid wide open with eye ct eye).	e washing bottle, eye douche or
4.1.3	possible. Ensure quiet, wa	bours vapour fresh air should be inhaled. Keep airways free. Administer a Dex rmth, and provide resuscitation if necessary. In the event of respiratory c e breathing, heart and circulatory function	
4.1.4	After ORAL Intake After oral intake lots of wa	ter should be drunk after it has been ingested	
4.2	• • •	ms and effects, both acute and delayed nsitization by skin contact, also in repeated contact of small amounts. Ma	av cause allergy or asthma
	symptoms or breathing difficult		ay outse allergy of dotting
4.3	•	diate medical attention and special treatment needed	
	Inform patient respectively furt	her measures and the possibility of long-term damages	
SECT	ION 5: Firefighting m	easures	
5.1	Extinguishing media		
	Fire extinguishers appropriate	o the fire classification, and, if applicable, a fire blanket must be availabl ∋ FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be ι	
	Work area. 7 in oximgulariore int		

- WARNING: Flammable (GHS regulation). May form explosive vapour-air mixtures. Formation of hazardous and caustic vapour-air mixtures possible. -
- Advice for firefighters 5.3

No, for listed product. Product package burns like paper or plastic.

5.4 Additional information

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. 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 smaller		
6.3	Bind any escaping liquid with ine Clean any contaminated equipme	nent and floors with plenty of water.	ocal regulations for the disposal of hazardous chemicals.
6.4	Collect small amounts of leaked l	liquid and flush with water into drains. ons	
	FION 7: Handling and s	torage	
7.1	Precautions for safe han Handling in accordance with the	ndling test instruction, that comes with the product. I	Use only in well-ventilated working areas.
7.2		age, including any incompatibilitie MACHEREY-NAGEL allows a safe storage. 3 3	!S
7.2.1	Requirements for stock ro		e.
7.3	Specific end use(s) Product for analytical use.	-	
SECT	ION 8: Exposure contr	rols/personal protection	
8.1	Control parameters		
	7 mL DRB (OEM) Chemical: chemicals/mix	xture < 2%	CAS No.: -
	50 mL MDB Chemical: guanidinium th DNEL: DNEL = Derived No-Effect PNEC(fresh water) : PNEC = Predicted No Effect	[inĥ] 1092 μg/m³ ct Level (for workers)	CAS No.: 593-84-0
	NIOSH:	ected Concentration not listed erage to a reference period of 8 hours, [STEL] Short-term not listed	exposure limit related to a 15-minute period
	Chemical: ethanol		CAS No.: 64-17-5d
	DNEL: DNEL = Derived No-Effect PNEC(fresh water) : PNEC = Predicted No Effe	0.96 mg/L	
	TRGS 900 (DE):	200 ppm / 380 mg/m³ E/e respirable	
	SUVA(CH) MAK value: NIOSH:	iratorý sensitizable (Sa), skin sensitizable (Sh), teratogeni 500 ppm / 960 mg/m³ [TWA] 1000 ppm / 1900 mg/m³	
	[TWA] Time-weighted ave OSHA:	erage to a reference period of 8 hours, [STEL] Short-term 1000 ppm / 1900 mg/m ³	exposure limit related to a 15-minute period
	125 mL RA1 Chemical: <i>guanidinium tl</i> DNEL:	<i>thiocyanate</i> [inh] 1092 μg/m³	CAS No.: 593-84-0
	DNEL = Derived No-Effect PNEC(fresh water) : PNEC = Predicted No Effect	ct Level (for workers) 42.4 μg/L	
	NIOSH: [TWA] Time-weighted ave OSHA:	not listed erage to a reference period of 8 hours, [STEL] Short-term not listed	exposure limit related to a 15-minute period
	-		



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· · · · · · · · · · · · · · · · · · ·				
	25 mL RA3 Chemical:	chemicals/mix	xture < 1%	CAS No.: -
	80 mL RAW2			
	Chemical: DNEL: DNEL =	guanidine hyd	lrochloride [inh] 3.5 mg/m³ t Level (for workers)	CAS No.: 50-01-1
	PNEC _{(fresh wa} PNEC =	ter) : Predicted No Effe	ected Concentration	
	NIOSH:		not listed	Short-term exposure limit related to a 15-minute period
	OSHA:	Ũ	not listed	
	Chemical:	ethanol		CAS No.: 64-17-5
			[derm] 343 mg/kg; [inh] 950 mg/m Level (for workers)	3
	PNEC _{(fresh wa} PNEC =	ter) : Predicted No Effe	0.96 mg/L acted Concentration	
	TRGS 900 (D	,	200 mL/m³ / 380 mg/m³ E/e respirable	
	Short-term ex skin res	posure factor: orptive (H), respir	4 (II), Y ratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded
	SUVA(CH) M/ NIOSH: [TWA] T		500 ppm / 960 mg/m ³ [TWA] 1000 ppm / 1900 mg/m ³ rage to a reference period of 8 hours, [STEL	Short-term exposure limit related to a 15-minute period
	OSHA:	Ũ	[TWA] 1000 ppm / 1900 mg/m ³	
	200 U, Size D Chemical:	, rDNase rDNase		CAS No.: 9003-98-9
	13 mL RNase Chemical:	-free H ₂ O water		CAS No.: 7732-18-5
(Exposure con Good ventilation at evel of cleanliness	nd extraction s	ystem in the room, floor resistant to tained at the workplace.	chemicals with floor drainage and washing facilities. The highest
3.2.1	Respiratory p Use for open		e substances for example a protecti	on filter, class A/AX. No additional recommendations.
8.2.2		cording EN 3	74 (permeation time >30 min - level chemical resistant latex gloves with	2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansell code EN 374-3 level 1.
8.2.3	Eye protectio Yes, safety gla		ng EN 166 with integrated side shiel	ds or wrap-around protection.
3.2.4	Skin protecti Recommende		tamination with these hazards.	
3.2.5	with the skin,	ig, smoking, ta eyes and cloth	ing. Rinse any clothing on which the	ork areas and at outdoor workplaces is prohibited. Avoid contact e substance has been spilled, and soak it in water. Wash hands eating, and then apply protective skin cream.
SECTIC	N 9: Physic	al and cl	nemical properties	
9.1 I	Information of	n basic phy	sical and chemical proper	ties
	7 mL DRB (O Appearance: I		Colour: colourless	Odor: odorless

Appearance: liquid pH: Specific gravity:	Colour: colourless 6.5-7.5 1.01 g/cm³	Odor: odorless
50 mL MDB Appearance: liquid	Colour: colourless	Odor: alcoholic

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pH: Flash point: Specific gravity:	6.7-7.2 55 ℃ 1.01 g/cm³		
125 mL RA1 Appearance: liq pH: Specific gravity:	6.5-7.5	Odor: odorless	
25 mL RA3 Appearance: liq pH: Specific gravity:	7-8	Odor: odorless	
80 mL RAW2 Appearance: liq pH: Flash point:	uid Colour: colourless 6.5-7.5 28 °C	Odor: alcoholic	
200 U, Size D, I Appearance: so		Odor: odorless	
13 mL RNase-f Appearance: liq pH: Specific gravity:	uid Colour: colourless 6-8	Odor: odorless	

Data for the other parameters of the mixtures are not available, because no registration and no chemical safety report is required. **Relevant Properties of Substance Group**

SECTION 10: Stability and reactivity

10.1 Reactivity

no further data available.

10.2 Chemical stability No known instability.

10.3 Possibility of hazardous reactions

Note: Can form very reactive substances with oxidizing agents. Possible: Contact with acids liberates toxic gas. No further data available.

10.4 Conditions to avoid Not necessary. ---

10.5 Incompatible materials

Avoid contact with strong acids or alkalines.

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.

7 mL DRB (OEM)

chemicals/mixture < 2% Chemical: **TSCA** Inventory: all listed, <2% Korea Exist.Chem.Inventory: listed

CAS No .: -

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50	mL MDB			
	5	anidinium thiocyanate		CAS No.: 593-84-0
	TSCA Inventory:	listed	California Proposition 65 List: not liste	
	Australia NICNAS:	not listed	Canada CEPA 1999: DSL ye	2S
	Japan CSCL/PRTR:	not listed, Japan PDS	SCL: not listed	
	Japan ISHL:	not listed		
	South Korea TCCA:	not listed		
	Korea Exist.Chem.Inven			
	LD50 _{orl rat} :	593 mg/kg		
	LC50 _{drm rbt} :	>2000 mg/m ³		
	LC50 _{ihl rat} :	[4h] 5.319 mg/L		
	LD50 _{ipr mus} :	300 mg/kg		
	Chemical: eth	hanal		CAS No.: 64-17-5d
	TSCA Inventory:	hanol listed	California Proposition 65 List: not liste	
	ACGIH:	1000 ppm	California i reposition de Liet. net liet	54
	Exposure Routes:		, skin and/or eye contact	
	Target Organs:		ry system, central nervous system, live	ar blood reproductive system
	Symptoms:			(weakness, exhaustion), narcosis; cougl
	liver damage; anemia; re			(Weakinood, exhibition), hareeele,
	Australia NICNAS:	not listed	Canada CEPA 1999: DSL ye	es
	Japan CSCL/PRTR:	not listed, Japan PDS		-
	Japan ISHL:		Article 57-2 (SDS required)	
	South Korea TCCA:	not listed		
	Korea Exist.Chem.Inven	tory: KE-13217		
	LD50 _{orl rat} :	6200 mg/kg		
	LC Low _{ihl apa} :	21.9 g/m³		
	LC Loworl hmn :	1400 mg/kg		
	LC50 _{ihl mouse} :	[4h] 39 g/m³		
	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		
12	5 mL RA1			
		anidinium thiocyanate		CAS No.: 593-84-0
	TSCA Inventory:	listed	California Proposition 65 List: not liste	
	Australia NICNAS:	not listed	Canada CEPA 1999: DSL ye	
	Japan CSCL/PRTR:	not listed, Japan PDS		.5
	Japan ISHL:	not listed		
	South Korea TCCA:	not listed		
	Korea Exist.Chem.Inven			
	LD50 _{orl rat} :	593 mg/kg		
	LC50 _{drm rbt} :	>2000 mg/m ³		
	LC50 _{ihl rat} :	[4h] 5.319 mg/L		
	LD50 _{ipr mus} :	300 mg/kg		
	Acute Effects: Cause aft	er oral intake, impairments	s of health when ingested in small quan	ıtities.
25	mL RA3			
	Chemical: che	nemicals/mixture < 1%		CAS No.: -
	TSCA Inventory:	all listed, <1%		
	Korea Exist.Chem.Inven	tory: listed		
90	mL RAW2			
				040 No - 50 01 1
00		anidine hydrochloride		CAS No.: 50-01-1
00	Chemical: gua	listed	California Proposition 65 List: not liste	
00	TSCA Inventory:			;S
	TSCA Inventory: Australia NICNAS:	not listed	Canada CEPA 1999: DSL ye	
	TSCA Inventory: Australia NICNAS: Japan CSCL/PRTR:	not listed not listed, Japan PDS		
	TSCA Inventory: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL:	not listed not listed, Japan PDS not listed		
	TSCA Inventory: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA:	not listed not listed, Japan PDS not listed not listed		
	TSCA Inventory: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.Inven	not listed not listed, Japan PDS not listed not listed not listed ntory: KE-18111		
	TSCA Inventory: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.Invent LD50 _{orl rat} :	not listed not listed, Japan PDS not listed not listed ntory: KE-18111 475-907 mg/kg	SCL: not listed	
	TSCA Inventory: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.Inven	not listed not listed, Japan PDS not listed not listed not listed ntory: KE-18111	SCL: not listed	
	TSCA Inventory: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.Inven LD50 _{orl rat} : LC50 _{ihl rat} : LD50 _{drm rbt} :	not listed not listed, Japan PDS not listed not listed htory: KE-18111 475-907 mg/kg [4h] 3181-7655 µg/m 2000 mg/kg	SCL: not listed	www.mn-r
MACHEREY	TSCA Inventory: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.Inven LD50 _{orl} rat : LC50 _{lhl} rat : LD50 _{drm} rbt :	not listed not listed, Japan PDS not listed not listed ntory: KE-18111 475-907 mg/kg [4h] 3181-7655 µg/m 2000 mg/kg	SCL: not listed n³ tr. 6–8 · 52355 Düren · Germany	
MACHEREY DE/internati	TSCA Inventory: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.Inven LD50orl rat : LC50ihl rat : LD50drm rbt :	not listed not listed, Japan PDS not listed not listed ntory: KE-18111 475-907 mg/kg [4h] 3181-7655 µg/m 2000 mg/kg	SCL: not listed 1 ³ tr. 6–8 · 52355 Düren · Germany FR:	US:
MACHEREY DE/internati	TSCA Inventory: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.Inven LD50 _{orl} rat : LC50 _{lhl} rat : LD50 _{drm} rbt :	not listed not listed, Japan PDS not listed not listed ntory: KE-18111 475-907 mg/kg [4h] 3181-7655 µg/m 2000 mg/kg	SCL: not listed n³ tr. 6–8 · 52355 Düren · Germany	
MACHEREY DE/internati Tel.: +49	TSCA Inventory: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.Invent LD50orl rat : LC50ihl rat : LD50drm rbt : /-NAGEL GmbH & Co. K0 ional: 24 21 969-0 Tel	not listed not listed, Japan PDS not listed not listed ntory: KE-18111 475-907 mg/kg [4h] 3181-7655 µg/m 2000 mg/kg	SCL: not listed 1 ³ tr. 6–8 · 52355 Düren · Germany FR:	



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Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.

Chemical:	ethanol	1	CAS No.: 64-17-5
TSCA Inventory:		listed	California Proposition 65 List: not listed
ACGIH:		1000 ppm	
Exposure Routes:		inhalation, ingestion	, skin and/or eye contact
Target Organs:		Eyes, skin, respirato	ory system, central nervous system, liver, blood, reproductive system
Symptoms:			nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; cough;
liver damage; anemia	a; reprod		
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.In	ventory:		
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	
LD50 _{drm rbt} :		20 000 mg/kg	
LD50 _{oral mouse} :		3450 mg/kg	
TRGS 905 (DE):		K5, M5, R _F C	
200 U, Size D, rDNa	se		
Chemical:	rDNase		CAS No.: 9003-98-9
TSCA Inventory:		listed	
Japan CSCL/PRTR:		not listed	
Japan ISHL:		not listed	

Korea Exist.Chem.Inventory: KE-09612 Acute Effects: Cause after impairments of health when ingested in small quantities. 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.

13 mL RNase-free H₂ O

Chemical:	water
TSCA Inventory:	listed
Korea Exist.Chem.	Inventory: KE-35400

SECTION 12: Ecological information

12.1 Toxicity

Following information is valid for pure substances.

7 mL DRB (OEM)

Chemical:	chemicals/mixture <	2%
Water hazard class	(DE): 1	
Storage class (VCI):	12-1	3

50 mL MDB

Chemical:	guanidinium th	niocyanate
PNEC(fresh water) : PNEC = Predicted No Eff	ected Concentration	42.4 μg/L
LC50 _{fish/96h} :		[4d] 89.1 mg/L
EC50 _{daphnia/48h} :		42.4 mg/L
IC50 _{scenedesmus} quad	Iricauda/72h	130 mg/L
EC10 _{pseudomonas} put	ita/16h	[10d] 200 mg/L
Water hazard class	(DE):	3
Dispersion coefficier	nt(octanol-water):	[pH 5.1] -1.11
Storage class (VCI):		12

CAS No.: 7732-18-5

CAS No .: -

CAS No.: 593-84-0

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Chemical: ethanol PNEC (fresh water) : 0.96 mg/ PNEC = Predicted No Effected Concentration LC50daphnia magna/48h : >100 g/L LC50discus idus/96h : 13.4-15. LC50leuciscus idus/96h : [48h] 8.1 LC50fish/96h : 13 g/L EC50daphnia/48h : 9.3-14.2 IC50scenedesmus quadricauda/72h : [7d] 5000 EC10pseudomonas putita/16h : [EC5] 65 Water hazard class (DE): 1 V Dispersion coefficient(octanol-water) : -0.31 Storage class (VCI): 3 125 mL RA1 Chemical: guanidinium thiocyanated Harmful to aquatic life with long lasting effects Environmental hazards must not be labelled w	1 g/L 4 g/L g/L 0 mg/L 00 mg/L VGK No.: 0096 • CAS No.: 593-84-0 . Avoid contact of substance/mixture to environment. <i>i</i> th P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).
PNEC(fresh water) : 0.96 mg/ PNEC = Predicted No Effected Concentration LC50daphnia magna/48h : >100 g/L LC50jimephales promelas/96h : 13.4-15. LC50leuciscus idus/96h : [48h] 8.1 LC50tjish/96h : 13 g/L EC50daphnia/48h : 9.3-14.2 IC50scenedesmus quadricauda/72h : [7d] 5000 EC10pseudomonas putita/16h : [EC5] 65 Water hazard class (DE): 1 V Dispersion coefficient(octanol-water) : -0.31 Storage class (VCI): 3 125 mL RA1 Chemical: guanidinium thiocyanated Harmful to aquatic life with long lasting effects Environmental hazards must not be labelled w	L 1 g/L 4 g/L g/L 0 mg/L 00 mg/L VGK No.: 0096 CAS No.: 593-84-0 . Avoid contact of substance/mixture to environment. vith P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).
LC50daphnia magna/48h : >100 g/L LC50pimephales promelas/96h : 13.4-15. LC50leuciscus idus/96h : [48h] 8.1 LC50daphnia/48h : 9.3-14.2 IC50scenedesmus quadricauda/72h : [7d] 5000 EC10pseudomonas putita/16h : [EC50 06] Water hazard class (DE): 1 V Dispersion coefficient(octanol-water) : -0.31 Storage class (VCI): 3 125 mL RA1 Chemical: guanidinium thiocyanate Harmful to aquatic life with long lasting effects Environmental hazards must not be labelled w	1 g/L 4 g/L 9 mg/L 00 mg/L VGK No.: 0096 • CAS No.: 593-84-0 . Avoid contact of substance/mixture to environment. vith P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).
EC50daphnia/48h : 9.3-14.2 IC50scenedesmus quadricauda/72h : [7d] 5000 EC10pseudomonas putita/16h : [EC5] 65 Water hazard class (DE): 1 V Dispersion coefficient(octanol-water) : -0.31 3 125 mL RA1 Chemical: guanidinium thiocyanate Harmful to aquatic life with long lasting effects Environmental hazards must not be labelled w	0 mg/L 00 mg/L VGK No.: 0096 • CAS No.: 593-84-0 . Avoid contact of substance/mixture to environment. /ith P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).
Water hazard class (DE): 1 V Dispersion coefficient _(octanol-water) : -0.31 Storage class (VCI): 3 125 mL RA1 Chemical: guanidinium thiocyanate Harmful to aquatic life with long lasting effects Environmental hazards must not be labelled w	VGK Ňo.: 0096 CAS No.: 593-84-0 . Avoid contact of substance/mixture to environment. /ith P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).
Chemical: guanidinium thiocyanate Harmful to aquatic life with long lasting effects Environmental hazards must not be labelled w	. Avoid contact of substance/mixture to environment. /ith P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).
PNEC _(fresh water) : 42.4 µg/l	
PNEC(fresh water):42.4 µg/lPNEC = Predicted No Effected Concentration42.4 µg/lLC50fish/96h :[4d] 89.1EC50daphnia/48h :42.4 mg/lIC50scenedesmus quadricauda/72h :130 mg/l	L
EC10pseudomonas putita/16h[10d] 200Water hazard class (DE):3Dispersion coefficient(octanol-water):[pH 5.1]Storage class (VCI):12	•
25 mL RA3 Chemical: chemicals/mixture < 1%	CAS No.: -
Water hazard class (DE):1Storage class (VCI):12-13	
80 mL RAW2 Chemical: guanidine hydrochloride PNEC(fresh water): - PNEC = Predicted No Effected Concentration	CAS No.: 50-01-1
LC50leuciscus idus/96h : 1759 mg LC50fish/96h : [4d] 690- EC50daphnia/48h : 70.2 mg/	.1850; [48h] 1758-2420 mg/L L
	8-33.5 mg/L VGK No.: 0788
Chemical: ethanol PNEC(fresh water) : 0.96 mg/ PNEC = Predicted No Effected Concentration	CAS No.: 64-17-5
LC50 _{daphnia} magna/48h : >100 mg LC50 _{pimephales} promelas/96h : 13400 - LC50 _{leuciscus} idus/96h : [48h] 814 LC50 _{fish/96h} : 13 g/L	15100 mg/L
EC50 _{daphnia} /48h : 9.3-14.2 IC50 _{scenedesmus} quadricauda/72h : [7d] 5000 EC10 _{pseudomonas} putita/16h : [EC5] 65) mg/L
Dispersion coefficient _(octanol-water) : -0.31 Storage class (VCI): 3	
	CAS No.: 9003-98-9 VGK No.: n.n.
Storage class (VCI): 13 13 mL RNase-free H ₂ O	

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	Chemical:	water		CAS No.: 7732-18-5	
12.2	Persistence and de	egradability			
12.3	Bioaccumulative ponot necessary	otential			
12.4	Mobility in soil not necessary				
12.5	Results of PBT and no data available	l vPvB assessr	nent		
12.6	Other adverse effe				
SECT	ION 13: Disposal	consideratio	ons		

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.

SECTION 14: Transport information

14.1 UN number: 14.3 Class:	1993 3		UN proper shipping n Packing group: III	ame: F	lammable liquid, n.o.s. (ethanol mixture)
Road transport					
Classification code:	F1				
Limited Quantity:	5 L		Tunnel restriction coo	de:	E
Excepted Quantity: Air transport	E 1		Special instructions:	640E	
PAX:	355		max. weight PAX:	60 L	
CAO: Maritime transport	366		max. weight CAO:	220 L	
EmS:	F-E, \$	S-E	Storage category:	А	

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 ---



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SECTION 16: Other information

16.1 List of H and P phrases

16.1.1 List of relevant H phrases

10.1.1	List of relevant in philases		
	H226	Flammable liquid and vapour.	
	H302	Harmful if swallowed.	
	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
	H412	Harmful to aquatic life with long lasting effects.	
16.1.2	List of relevant P phrases		
	P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.	
	P261sh	Avoid breathing dust/vapours.	
	P264W	Wash with water thoroughly after handling.	
	P273	Avoid release to the environment.	
	P301+312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.	
	P304+340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
	P330	Rinse mouth.	
	P342+311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.	

16.2 Training advice

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

16.3 Recommended restriction on use

Only for professional user.

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

16.4 Further information

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

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16.5 Sources of key data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS Regulation 487/2013/EU, 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 Regulation 1480/2018/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 Regulation 1480/2018/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 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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