MACHEREY-NAGE



Safety Data Sheet

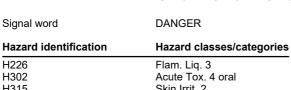
according to Regulations 1907/2006/EC (REACh) and 2015/830/EU

REF: 740740	NucleoSpin 8 Tissue (12x8)	Page: 1/12
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier	
	REF	740740
	Product name	NucleoSpin 8 Tissue (12x8)
	REACH Registration number(s): A registration number for the sub the substance or its use is exclude	see SECTION 3.1/3.2 or stance(s) does not exist because the annual tonnage does not require registration or ted from registration
		1 x 50 mL B5 1 x 60 mL BE 1 x 75 mL BW 1 x 8 mL PB 1 x 1-75 mg Proteinase K (Iyo)
		1 x 50 mL T1
1.2	Relevant identified uses Product for analytical use. Exposure Scenario Classifi	ication according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0 ntegrated into sections 1-16.
1.3	Details of the supplier of the Manufactured by:	safety data sheet
	MACHEREY-NAGEL GmbH & Co	
	Valencienner Str. 11, 52355 Dürer Tel : +49 2421 969 0	n, GERMANY E-mail: sds@mn-net.com (msds@mn-net.com)
1.4	Emergency telephone number	
	Outside Germany (DE): Call your DE: Gemeinsames Giftinformation	regional Poisons Information Service or call local Life Saving Service. Iszentrum (GGIZ) 99089 Erfurt tel. +49 361 730 730
	You find our current versions of SDS (22 la	nguages) in Internet: http://www.mn-net.com/SDS
SECT	FION 2: Hazard identification	on
2.0	Classification of the complete	e product
2.0		





H315 Skin Irrit. 2 H319 Eye Irrit. 2 Resp. Sens. 1 STOT SE 3 H334 H336, H335

2.1 Classification of the substance or mixture

50 mL B5

H226

H302

Do not need labelling as hazardous



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Signal word	-
No hazard class	
60 mL BE	
Signal word	Do not need labelling as hazardous -
No hazard class	
75 mL BW	
	GHS02 GHS07
Signal word	WARNING
Hazard identification	Hazard classes/categories
H226 H302 H319 H336, H335	Flam. Liq. 3 Acute Tox. 4 oral Eye Irrit. 2 STOT SE 3
8 mL PB	
Signal word	Do not need labelling as hazardous -
No hazard class	
1-75 mg Proteinase K (Iyo)	
	GHS07 GHS08
Signal word	DANGER
Hazard identification	Hazard classes/categories
H315 H319	Skin Irrit. 2 Eye Irrit. 2
H334	Resp. Sens. 1
50 mL T1	
Signal word	Do not need labelling as hazardous -
No hazard class	
2 Label elements	
	ages must be only labelled with GHS symbol(s) and product identificator(s) (EU 1272/2008 Annex I
Harmful chemicals/mixtures with sig	nal word: WARNING and highly flammable chemicals/mixtures must not be labelled with H and P)8 Annex I - 1.5.2). This labelling exemption is NOT valid for sensibilizing substances.

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The irritant hazard should be eliminated, because of buffer chemicals inside.

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50 mL B5

Do not need labelling as hazardous Signal word: -

60 mL BE

Do not need labelling as hazardous Signal word: -

75 mL BW



Signal word: WARNING

8 mL PB

Do not need labelling as hazardous Signal word: -

1-75 mg Proteinase K (Iyo)



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.

50 mL T1

Do not need labelling as hazardous Signal word: -

2.3 Other hazards

Possible hazards from physicochemical properties

In the case of pH values are less than 5 or higher than 9 then it is irritant. Flammable properties. ---

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 PBT: not applicable not applicable vPvB:

Other hazards

SECTION 3: Composition/information on ingredients

3.1 Substances or 3.2 Mixtures

50 mL B5



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EF: 740740		NucleoSpin 8 Ti	()		Page: 4/1
rinting date: 12.05.2021		Date of issue: 2	1.09.2020		
Chei	mical: <i>chem</i>	icals/mixture < 1%		CAS No.: -	
	sification:	No criteria for classification or naming	of chemical not required.		
	A Inventory:	all listed, <1%			
KE N Con	vo.: centration:	listed 0.1 - <1 %			
	CLP (GHS):	The criteria for classification are not fu	ulfilled.		
60 mL BE		in a la fracticate da a da d			
	mical: <i>chem</i> sification:	icals/mixture < 1%	of chamical not required	CAS No.: -	
	A Inventory:	No criteria for classification or naming all listed, <1%	or chemical not required.		
KE N		listed			
	centration:	0.1 - <1 %			
acc.	CLP (GHS):	The criteria for classification are not fu	ılfilled.		
75 mL BW					
Chei		dine hydrochloride		CAS No.: 50-01-1	
	sification:	H302, Acute Tox. 4 oral, H315	5, Skin Irrit. 2, H319, Eye Irrit	. 2	
Forn	nula: udonym:	CH ₆ ClN ₃ guanidinium chloride			
	A Inventory:	listed			
	CH Reg. No.:	01-2119977063-35-0005			
ECN		200-002-3	Indice No.:	607-148-00-0	
RTE		MF4300000	MFCD:	00013026	
KEN		KE-18111			
	centration: CLP (GHS):	36 - <50 % H302, Acute Tox. 4 oral, H319). Eve Irrit. 2		
			, _ , _, _		
	mical: 2 <i>-pro</i> sification:	<i>banol</i> H225, Flam. Lig. 2, H319, Eye	Irrit 2 H336 STOT SE 3	CAS No.: 67-63-0	
Forn		$C_3 H_8 O$, init. 2, 11000, 0101 0E 0		
	udonym:	isopropanol, IPA, propan-2-ol			
	A Inventory:	listed			
	CH Reg. No.:	01-2119457558-25-XXXX			
EC N RTE		200-661-7	Indice No.:	603-117-00-0	
KEN		NT8050000 KE-29363	MFCD:	00011674	
	centration:	20 - <35 %			
	CLP (GHS):	H226, Flam. Liq. 3, H319, Eye	e Irrit. 2, H336, STOT SE 3		
9 ml DD					
8 mL PB Chei	mical: glyce	role		CAS No.: 56-81-5	
	sification:	No criteria for classification or naming	of chemical not required.		
	nula:	C ₃ H ₈ O ₃			
	udonym:	glycerin, 1,2,3-propanetriol			
	A Inventory: CH Reg. No.:	listed (1,2,3-Propanetriol) 01-2119471987-18-xxxx			
ECI	0	200-289-5	Indice No.:	n/a	
RTE		MA8050000	MFCD:	00004722	
KEN		KE-29297			
	centration:	10 - <50 %			
acc.	CLP (GHS):	The criteria for classification are not fu	ulfilled.		
1-75 ma Prot	einase K (Iyo)				
Chei	mical: prote	inase K (origin: tritirachium albun		CAS No.: 39450-01-6	
	sification:	H315, Skin Irrit. 2, H319, Eye			
Forn		Enzyme Comm. No. 3.4.21.64	origin: tritirachium album		
	A Inventory:	listed (CAS 102925-54-2)	Indian Ma	647 014 00 0	
EC N RTE		254-457-8 -	Indice No.: MFCD:	647-014-00-9 00132129	
KEN		- not listed		00102120	
	centration:	90 - <100 %			
0010					



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4007/0000/EO (DEAOL) -

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Printin	ng date: 12.05.2021	Date of issue: 21.09.2020	
	50 mL T1		
	Chemical: chem Classification: TSCA Inventory: KE No.: Concentration: acc. CLP (GHS):	nicals/mixture < 2% No criteria for classification or naming of chemical not required. all listed, <2% listed 1 - <2 % The criteria for classification are not fulfilled.	CAS No.: -
3.3	Remarks When not listed, mixtures are	e added with water [CAS No. 7732-18-5] to 100%.	
	List of H and P phrases: see	section 16.1	
SEC	TION 4: First aid measu	res	
4.1		easures er zone to fresh air immediately. Ensure quiet, warmth, and e. Take to a doctor, in a raised position if there are breathing	
4.1.1	After SKIN Contact Remove contaminated clothi soap.	ng. Rinse the affected skin or mucous membrane thoroughly	y under running water. (If possible) use
4.1.2	After EYE Contact After contact with the eyes ri running water (protect intact	nse thoroughly under running water with the eyelid wide ope eye).	en with eye washing bottle, eye douche or
4.1.3		urs pour fresh air should be inhaled. Keep airways free. Admini th, and provide resuscitation if necessary. In the event of re preathing, heart and circulatory function	

414 After ORAL Intake

After oral intake lots of water should be drunk after it has been ingested. ---

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

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

5.3 Advice for firefighters

No, for listed product. 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.

6.2 **Environmental precautions**

not necessary



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6.3	Methods and material for	containment and cleaning up	
	Clean any contaminated equipmer		sposal of hazardous chemicals.
Collect small amounts of leaked liguid and flush with water into drains.			

6.4 **Reference to other sections**

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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

7.2	Conditions for safe storage, in	cluding any incompatibilities
	The original product package of MACHEF	REY-NAGEL allows a safe storage.
	Storage class (VCI):	3
	Water hazard class (DE):	1
7.2.1	Requirements for stock rooms and	l containers

Keep original product packages tightly closed during handling and storage.

7.3 Specific end use(s)

Product for analytical use.

SECTION 8: Exposure controls/personal protection

8.1 **Control parameters**

50 mL B5 Chemical:	chemicals/mix	ture < 1%	CAS No.: -
60 mL BE Chemical:	chemicals/mix	ture < 1%	CAS No.: -
	<i>guanidine hyd</i> = Derived No-Effect	[inh] 3.5 mg/m ³	CAS No.: 50-01-1
PNEC _{(fresh w} PNEC	ater) : = Predicted No Effe	- ected Concentration	
NIOSH:	Time-weighted ave	not listed rage to a reference period of 8 hours, [STEL] Short-term exposure limit re	lated to a 15-minute period
OSHA:	Time-weighted ave	not listed	lated to a 13-minute period
Chemical: DNEL: DNEL	2-propanol = Derived No-Effect	[inh] 500 mg/m³ Level (for workers)	CAS No.: 67-63-0
PNEC _{(fresh w} PNEC	ater) : = Predicted No Effe	140.9 mg/L	
TRGS 900 (I	DE):	200 ppm / 500 mg/m³ E/e respirable	
	xposure factor:	•	v excluded / (Y) certainly excluded
SUVA(CH) N TRGS 903 (I	/IAK value:	200 ppm / 500 mg/m ³ [Aceton B/b, U/b] 25 mg/L B blood, U urine, a no limitation, b end of exposition or shift	
	SH STEL: Time-weighted ave	[TWA] 400 ppm / 980 mg/m ³ 500 ppm / 1225 mg/m ³ rage to a reference period of 8 hours, [STEL] Short-term exposure limit re	lated to a 15-minute period
OSHA:		[TWA] 400 ppm / 980 mg/m³	
8 mL PB			

glycerole Chemical: [inh] 56 mg/m³ DNEL: DNEL = Derived No-Effect Level (for workers) PNEC (fresh water) : 0.885 mg/L PNEC = Predicted No Effected Concentration

CAS No.: 56-81-5

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Printing	g date: 12.05.2021	Date of issue: 21.09.202	0
	TRGS 900 (DE):	200 E mg/m ³ E/e respirable	
			ogenic (Z) not securely excluded / (Y) certainly excluded
	SUVA(CH) MAK value:	50 e* mg/m³	
	1-75 mg Proteinase K (lyo) Chemical: proteinase K (SUVA(CH) MAK value:	origin: tritirachium album) 0,00006 _{15min} mg/m³	CAS No.: 39450-01-6
	50 mL T1 Chemical: <i>chemicals/mix</i>	ture < 2%	CAS No.: -
3.2	Exposure controls		
	•		icals with floor drainage and washing facilities. The highest
8.2.1	Respiratory protection Use for open access of thes	e substances for example a protection filte	er, class A/AX. No additional recommendations.
8.2.2		/4 (permeation time >30 min - level 2), co chemical resistant latex gloves with code	nsist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ans EN 374-3 level 1.
8.2.3	Eye protection Yes, safety glasses accordir	g EN 166 with integrated side shields or v	wrap-around protection.
8.2.4	Skin protection Recommended to avoid con	amination with these hazards.	
3.2.5	with the skin, eyes and cloth	ng. Rinse any clothing on which the subs	eas and at outdoor workplaces is prohibited. Avoid contact tance has been spilled, and soak it in water. Wash hands g, and then apply protective skin cream.
SECI	with the skin, eyes and cloth thoroughly with soap and wa FION 9: Physical and cl		ter when stopping work and before eating
	-	•••	

9.1 Information on basic physical and chemical properties

50 mL B5 Appearance: liquid pH: Specific gravity:	Colour: colourless 7-8 1.00 g/cm³	Odor: odorless
60 mL BE Appearance: liquid pH: Specific gravity:	Colour: colourless 8-9 1.0 g/cm³	Odor: odorless
75 mL BW Appearance: liquid pH: Flash point: Specific gravity:	Colour: colourless 7-8 25 °C 1.06 g/cm³	Odor: alcoholic
8 mL PB Appearance: liquid Specific gravity:	Colour: colourless 1.11 g/cm³	Odor: alcoholic
1-75 mg Proteinase K (lyo) Appearance: solid (lyoph.)	Colour: slightly grey	Odor: odorless



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50 mL T1



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Appearance: liquid pH: . Specific gravity:

Colour: colourless 7.5-8.5 1.02 g/cm³

Odor: odorless

9.2 Other information

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

SECTION 10: Stability and reactivity

10.1 Reactivity

no further data available.

- 10.2 **Chemical stability** No known instability.
- 10.3 Possibility of hazardous reactions Note: Can form very reactive substances with oxidizing agents. 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.

50 mL B5

Chemical:	chemicals/mixture < 1%	CAS No.: -
TSCA Inventory:	all listed, <1%	
Korea Exist.Chem.In	ventory: listed	

60 mL BE

Chemical:	chemicals/mixture < 1%	CAS No.: -
TSCA Inventory:	all listed, <1%	
Korea Exist.Chem.I	nventory: listed	

75 mL BW

Chemica TSCA In Australia		<i>guanidine hydrochloride</i> listed not listed	CAS No.: 50-01-1 California Proposition 65 List: not listed Canada CEPA 1999: DSL yes
	SCL/PRTR:		, , , , , , , , , , , , , , , , , , ,
Japan IS	HL:	not listed	
South Ke	orea TCCA:	not listed	
Korea E	kist.Chem.In	ventory: KE-18111	
LD50 _{orl r}		475-907 mg/kg	
LC50 _{ihl r}		[4h] 3181-7655 μς	J/m ³
LD50 _{drm}		2000 mg/kg	
Acute Ef	fects: Cause	e after oral intake, impairme	nts of health when ingested in small quantities.
Chemica	ıl:	2-propanol	CAS No.: 67-63-0
TSCA In	ventory:	listed	California Proposition 65 List: not listed
ACGIH:	,	1230 ppm	'
Exposur	e Routes:	inhalation, ingesti	on, skin and/or eye contact
Target C	rgans:	Eyes, skin, respira	atory system
Symptor	ns:	irritation eyes, nos	e, throat; drowsiness, dizziness, headache; dry cracking skin; in animals: narcosis



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Printing of	1740	NucleoSpin 8 Tissue (12x8)	Page: 9/1
	late: 12.05.2021	Date of issue: 21.09.2020	
	Australia NICNAS:	Canada CEPA 1999: DSL y	es
	Japan CSCL/PRTR:	PAC yes, Japan PDSCL: -	
	Japan ISHL:	listed ≥1,0%/≥0,1%, Article 57-2 (SDS required)	
	South Korea TCCA:		
	Korea Exist.Chem.Inventor LD50 _{orl rat} :	5045 mg/kg	
	LD Stori rat : LC_Loworl hmn :	3570 mg/kg	
	LC50 _{ihl rat} :	16_{4h} g/m^3	
	LD50 _{drm rbt} :	12.8 g/kg	
	TRGS 905 (DE):	R _F C	
	8 mL PB		
	Chemical: glyce	prole	CAS No.: 56-81-5
	TSCA Inventory:	listed (1,2,3-Propanetriol)	
	Exposure Routes:	inhalation, skin and/or eye contact	
	Target Organs:	Eyes, skin, respiratory system, kidneys	e en en látim aver de alter a section à com e
	Symptoms: Japan CSCL/PRTR:	irritation eyes, skin, respiratory system; headache, nausea not listed, Japan PDSCL: not listed	, vomiting; klaney injury
	Japan ISHL:	not listed	
	Korea Exist.Chem.Inventor		
	LD50 _{orl rat} :	12.6 g/kg	
	LD50 _{drm rbt} :	>18.7 g/kg	
	TRGS 905 (DE):	R _F C	
	1-75 mg Proteinase K (I	vo)	
		inase K (origin: tritirachium album)	CAS No.: 39450-01-6
	TSCA Inventory:	listed (CAS 102925-54-2)	0/10/110:: 00+00-01-0
	Japan CSCL/PRTR:	not listed	
	Japan ISHL:	not listed	
	Korea Exist.Chem.Inventor		
	Acute Effects: Cause after	impairments of health when ingested in small quantities.	
	symptoms or breathing diff	e sensitization by skin contact, also in repeated contact of sma iculties if inhaled	all amounts. May cause allergy of astrima
	symptome of broating and		
	50 mL T1 Chemical: chem	nicals/mixture < 2%	CAS No.: -
	TSCA Inventory:	all listed, <2%	
	Korea Exist.Chem.Inventor		
SECTI	ON 12: Ecological in	formation	
	•		
12.1	IOXICITY		
12.1	Toxicity Following information is valid	I for pure substances.	
12.1	Following information is valid 50 mL B5	•	CAS No
12.1	Following information is valid 50 mL B5 Chemical:	chemicals/mixture < 1%	CAS No.: -
12.1	Following information is valid 50 mL B5	chemicals/mixture < 1%	CAS No.: -
12.1	Following information is valid 50 mL B5 Chemical: Water hazard class (D Storage class (VCI):	chemicals/mixture < 1% E): 1	CAS No.: -
12.1	Following information is valid 50 mL B5 Chemical: Water hazard class (D Storage class (VCI): 60 mL BE	chemicals/mixture < 1% IE): 1 12-13	
12.1	Following information is valid 50 mL B5 Chemical: Water hazard class (D Storage class (VCI): 60 mL BE Chemical:	chemicals/mixture < 1% IE): 1 12-13 chemicals/mixture < 1%	CAS No.: - CAS No.: -
12.1	Following information is valid 50 mL B5 Chemical: Water hazard class (D Storage class (VCI): 60 mL BE Chemical: Water hazard class (D	chemicals/mixture < 1% IE): 1 12-13 chemicals/mixture < 1% IE): 1	
12.1	Following information is valid 50 mL B5 Chemical: Water hazard class (D Storage class (VCI): 60 mL BE Chemical:	chemicals/mixture < 1% IE): 1 12-13 chemicals/mixture < 1%	
12.1	Following information is valid 50 mL B5 Chemical: (Water hazard class (D Storage class (VCI): 60 mL BE Chemical: (Water hazard class (D Storage class (VCI): 75 mL BW	chemicals/mixture < 1% IE): 1 12-13 chemicals/mixture < 1% IE): 1 12-13	CAS No.: -
12.1	Following information is valid 50 mL B5 Chemical: Water hazard class (D Storage class (VCI): 60 mL BE Chemical: Water hazard class (D Storage class (VCI): 75 mL BW Chemical:	chemicals/mixture < 1% IE): 1 12-13 chemicals/mixture < 1% IE): 1 12-13 guanidine hydrochloride	
12.1	Following information is valid 50 mL B5 Chemical: (Water hazard class (D Storage class (VCI): 60 mL BE Chemical: (Water hazard class (D Storage class (VCI): 75 mL BW	chemicals/mixture < 1% IE): 1 12-13 chemicals/mixture < 1% IE): 1 12-13 guanidine hydrochloride	CAS No.: -
12.1	Following information is valid 50 mL B5 Chemical: Water hazard class (D Storage class (VCI): 60 mL BE Chemical: Water hazard class (D Storage class (VCI): 75 mL BW Chemical:	chemicals/mixture < 1% IE): 1 12-13 chemicals/mixture < 1% IE): 1 12-13 guanidine hydrochloride	CAS No.: -
12.1	Following information is valid 50 mL B5 Chemical: Water hazard class (D Storage class (VCI): 60 mL BE Chemical: Water hazard class (D Storage class (VCI): 75 mL BW Chemical: PNEC (fresh water) : PNEC = Predicted No Effect LC50 leuciscus idus/96h : LC50 fish/96h :	chemicals/mixture < 1% (E): 1 12-13 chemicals/mixture < 1% (E): 1 12-13 guanidine hydrochloride ted Concentration 1759 mg/L [4d] 690-1850; [48h] 1758-2420 mg/L	CAS No.: -
12.1	Following information is valid 50 mL B5 Chemical: Water hazard class (D Storage class (VCI): 60 mL BE Chemical: Water hazard class (D Storage class (VCI): 75 mL BW Chemical: PNEC (fresh water) : PNEC = Predicted No Effec LC50leuciscus idus/96h :	chemicals/mixture < 1% IE): 1 12-13 chemicals/mixture < 1% IE): 1 12-13 guanidine hydrochloride ted Concentration 1759 mg/L	CAS No.: -
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МАСНЕ	Following information is valid 50 mL B5 Chemical: Water hazard class (D Storage class (VCI): 60 mL BE Chemical: Water hazard class (D Storage class (VCI): 75 mL BW Chemical: PNEC (fresh water) : PNEC = Predicted No Effect LC50leuciscus idus/96h : LC50fish/96h : EC50daphnia/48h :	chemicals/mixture < 1% IE): 1 12-13 chemicals/mixture < 1% IE): 1 12-13 guanidine hydrochloride ted Concentration 1759 mg/L [4d] 690-1850; [48h] 1758-2420 mg/L 70.2 mg/L	CAS No.: - CAS No.: 50-01-1
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MACHE DE/inte Tel.: Fax:	Following information is valid 50 mL B5 Chemical: (Water hazard class (D Storage class (VCI): 60 mL BE Chemical: (Water hazard class (D Storage class (VCI): 75 mL BW Chemical: (Water hazard class (VCI): 75 mL BW	chemicals/mixture < 1% IE): 1 12-13 chemicals/mixture < 1% IE): 1 12-13 guanidine hydrochloride ted Concentration 1759 mg/L [4d] 690-1850; [48h] 1758-2420 mg/L 70.2 mg/L Neumann-Neander-Str. 6–8 · 52355 Düren · Germany FR:	CAS No.: - CAS No.: 50-01-1 www.mn-ne
MACHE DE/inte Tel.: Fax:	Following information is valid 50 mL B5 Chemical: Water hazard class (D Storage class (VCI): 60 mL BE Chemical: Water hazard class (D Storage class (VCI): 75 mL BW Chemical: PNEC (fresh water) : PNEC (fresh water) : PNEC (fresh water) : PNEC (fresh water) : EC50leuciscus idus/96h : LC50lish/96h : EC50daphnia/48h : EREY-NAGEL GmbH & Co. KG rmational: +49 24 21 969-0 Tel.: +49 24 21 969-199 Fax:	chemicals/mixture < 1% IE): 1 12-13 chemicals/mixture < 1% IE): 1 12-13 guanidine hydrochloride ted Concentration 1759 mg/L [4d] 690-1850; [48h] 1758-2420 mg/L 70.2 mg/L · Neumann-Neander-Str. 6–8 · 52355 Düren · Germany FR: +41 62 388 55 00 Tel.: +33 388 68 22 68	CAS No.: - CAS No.: 50-01-1 Www.mn-ne US: Tel.: +1 484 821 0984 Fax: +1 484 821 1272



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	EC10 _{pseudomonas} putita/16h : Water hazard class (DE): Storage class (VCI):	[72h] 11.8-33.5 mg/L 1 WGK No.: 0788 12	
	Chemical: 2-propanol PNEC(fresh water) : PNEC = Predicted No Effected Concentrati	140.9 mg/L ion	CAS No.: 67-63-0
	LC50fish/96h : EC50daphnia/48h : IC50 _{scene} desmus quadricauda/72h : EC10 _{pseudomonas putita/16h :} Water hazard class (DE): Dispersion coefficient _(octanol-water) Storage class (VCI):	1400 mg/L 13.3 g/L >1000 mg/L EC5: 1050 mg/L 1 WGK No.: 0135	
	8 mL PB Chemical: glycerole PNEC(fresh water) : PNEC = Predicted No Effected Concentrati	0.885 mg/L ion	CAS No.: 56-81-5
	LC50fish/96h : EC50 _{daphnia} /48h : IC50 _{scenedesmus} quadricauda/72h : EC10 _{pseudomonas} putita/16h : Water hazard class (DE): Dispersion coefficient _(octanol-water) Storage class (VCI):	>5000 _{24h} mg/L >10 _{24h} g/L IC5 _{7d} >10 g/L EC5: >10 g/L 0 : -1.76 10	
	1-75 mg Proteinase K (lyo) Chemical: proteinase K Water hazard class (DE): Storage class (VCI):	((origin: tritirachium album) 1 13	CAS No.: 39450-01-6
	50 mL T1 Chemical: chemicals/m Water hazard class (DE): Storage class (VCI):	ixture < 2% 1 12-13	CAS No.: -
2.2	Persistence and degradability not necessary		
2.3	Bioaccumulative potential not necessary		
2.4	Mobility in soil not necessary		
2.5	Results of PBT and vPvB assess no data available	sment	
2.6	Other adverse effects no additional data available		

Please observe local regulations for collection and disposal of hazardous waste and contact waste disposal company, where you will obtain information on laboratory waste disposal (waste code number 16 05 06).

13.1 Waste treatment methods

Normally it is possible to empty small amounts (diluted!) into drains.



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SECTION 14: Transport information

14.1 UN number: 14.3 Class:		2 UN proper shipping n 4 Packing group: III	ame: Flammable liquid, n.o.s. (2-propanol mixture)
Road transport			
Classification code:	F1		
Limited Quantity:	5 L	Tunnel restriction coo	le: E
Excepted Quantity:	E 1	Special instructions:	640E
Air transport			
PAX:	355	max. weight PAX:	60 L
CAO:	366	max. weight CAO:	220 L
Maritime transport		-	
EmS:	F-E, S-E	Storage category:	A

14.5 **Environmental hazards**

none, contains only small quantities of hazardous substances

14.6 Special precautions for user not necessary

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on August 2013 German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gerantstoffverordnung -GefStoffV), revised on November 2010, according to Directive 98/24/EC

TRGS 200, German engineering rules governing the classification and labelling of hazardous substances, preparations and products, updated October 2011

MN Leaflet/User manual, also see www.mn-net.com Look for your country-specific regulations.

15.2 **Chemical safety assessment**

not necessary for these small amounts ---

SECTION 16: Other information

16.1 List of H and P phrases

16.1.1	List of relevant H p H226 H302 H315 H319 H334 H336	hrases Flammable liquid and vapour. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause drowsiness or dizziness.
16.1.2	List of relevant P p P210 P260D P261sh P264W P280sh P301+312 P304+340 P330 P342+311	hrases Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not breathe vapours. Avoid breathing dust/vapours. Wash with water thoroughly after handling. Wear protective gloves/eye protection. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Rinse mouth. If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
16.2	Training advice	

16.2 I raining advice

+49 24 21 969-0

+49 24 21 969-199

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**



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Only for professional user.

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

16.4 Further information

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

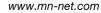
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16.5 Sources of key data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS Regulation 487/2013/EU, 4th adaptation of CLP regulation to technical and scientific progress Regulation 669/2018/EU, 4th adaptation of CLP regulation to technical and scientific progress Regulation 1480/2018/EU, 4th adaptation of CLP regulation to technical and scientific progress TRGS 900, German engineering rules governing limits in air at work, updated 03/2019 SUVA .CH, Limits in air at work 2009, revised on 01.2009 TRGS 907, German engineering rules governing listing of substances and causes of sensitizations, updated November 2011 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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