

REF: 740464.4	NucleoSpin 96 PCR Clean-up Core Kit 4x96	Page: 1/8
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Section 1: Identification

1.1 Product Identifier / Product Name 740464.4 REF Product Name NucleoSpin 96 PCR Clean-up Core Kit 4x96 1 x 125 mL NE 2 x 75 mL NT 2 x 100 mL NT3 1.2 Relevant identified Uses of the Substance or Mixture and Uses advised against **Relevant identified uses** Product for Analytical Use. The Exposure scenario is integrated into sections 1-16. Uses advised against not described 1.3 Details of the Supplier and of the Safety Data Sheet Manufactured by: MACHEREY-NAGEL GmbH & Co. KG Neumann-Neander-Str. 6-8, 52355 Dueren, GERMANY Tel.: +49 2421 969 0 E-mail: sds@mn-net.com (msds@mn-net.com) 1.4 Emergency Telephone Number For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night (CCN685047) Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

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

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

Section 2: Hazard(s) Identification

2.0 **Classification of the complete Product**

	GHS07
Signal Word	WARNING
Hazard Identification	Hazard Classes/Categories
H302 H412	Acute Tox. 4 oral Aquatic Chronic 3

 \wedge

2.1 Classification of the Substance(s) or Mixture(s)

125 mL NE

Do not need labelling as hazardous

No Hazard Class

Signal Word

75 mL NT



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	GHS07	
Signal Word	WARNING	
Hazard Identification	Hazard Classes/Categories	
H302 H412	Acute Tox. 4 oral Aquatic Chronic 3	
100 mL NT3		
	Do not need labelling as hazardous	
Signal Word	-	
No Hazard Class		

2.2 Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

According the implementation of GHS immediate packages only must be labelled with product identificator(s), GHS symbol(s), signal word, manufacturer name and phone number (OSHA's interpretation of HCS 2012).

Harmful chemicals/mixtures with signal word: **WARNING** must not be labelled with H and P phrases **until 125 mL** (EU 1272/2008 Annex I - 1.5.2) / **until 100 mL** (Canada WHMIS 2015). This labelling exemption does not apply to U.S.A.

125 mL NE

Do not need labelling as hazardous Signal Word: -

75 mL NT



Signal Word: WARNING

100 mL NT3

Do not need labelling as hazardous Signal Word: -

2.3 Other Hazards

Possible Hazards from physicochemical 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. ---

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Information pertaining to particular Risks to Human and possible Symptoms

Cause after oral intake, impairments of health when ingested in small quantities. ---

Information pertaining to particular Risks to the Environment

Other Hazards

Section 3: Composition/Information on Ingredients

3.1 Substances or 3.2 Mixtures

125 mL NE



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Chemical: chen	nicals/mixture < 1%		CAS No.: -
Classification:		aming of chemical is not required.	6A6 N0
TSCA Inventory:	all listed, <1%	anning of chemical is not required.	
Weight Percent:	0,1 - <1 %		
acc. GHS:	The criteria for classification are	not fulfilled.	
75 mL NT			
Chemical: guan	idinium thiocyanate		CAS No.: 593-84-0
Classification:		H312, Acute Tox. 4 derm., H3	314, Skin Corr. 1B, H332, Acute Tox. 4 inh.,
H412, Aquatic Chro			
Chemical Formula:	- 2 0 1		
Synonyms:	guanidine rhodanide listed		
TSCA Inventory: RTECS:	XL1225000	MFCD:	00013027
EC No.:	209-812-1	Indice No.:	615-004-00-3
Weight Percent:	30 - <45 %		
acc. GHS:	H302, Acute Tox. 4 oral,	H412, Aquatic Chronic 3	
100 mL NT3			
Chemical: chen	nicals/mixture < 1%		CAS No.: -
Classification: TSCA Inventory:	No criteria for classification or na all listed, <1%	aming of chemical is not required.	
Weight Percent:	0,1 - <1 %		
acc. GHS:	The criteria for classification are	not fulfilled.	
.3 Remarks			
When not listed, mixtures are	e added with water [CAS No	. 7732-18-5] to 100%.	
List of Hazard and Precautio	n phrases: see section 16.1		

Section 4: First-Aid Measures

4.1 Description of First-Aid Measures

Place insured person out of danger zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitation if necessary. If necessary contact medical advice.

4.1.1 After SKIN Contact

Remove contaminated clothing. Rinse the affected skin or mucous membrane thoroughly under running water. (If possible) use soap.

4.1.2 After EYE Contact

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

4.1.3 After INHALATION of Vapors

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

4.1.4 After ORAL Intake

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

4.2 Most important Symptoms and Effects, both acute and delayed

4.3 Indication of any immediate Medical Attention and Special Treatment needed No additionally recommendations. ---

Section 5: Fire-Fighting Measures

5.1 Extinguishable 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 WATER FOG, WATER SPRAY, alcohol-resistant FOAM, DRY CHEMICAL, CARBON DIOXIDE can be used.

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5.2 Special Hazards arising from the Substance or Mixture



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	Formation of hazardous and cau	ustic vapor-air mixtures possible	
5.3	Advice for Firefighters		
	-	ackage burns like paper or plastic.	
5.4	Additional Information		
Sect	on 6: Accidental Relea	ise Measures	
6.1	-	rotective Equipment and Emerg	gency Procedure
	Do not breathe vapors. Regular	• •	
5.2	Environmental Precautio		
		all amounts of these substances	
5.3	Bind any escaping liquid with ine	or Containment and Cleaning up	
		liquid and flush with water into sewer.	
6.4	Reference to other Section	ions	
Sect	on 7: Handling and Sto	orage	
7.1	Precautions for Safe Ha Handling in accordance with the	ndling test instruction, that comes with the produc	ct.
7.2	Conditions for Safe Stor	rage, including any Incompatibil	lities
		MACHEREY-NAGEL allows a safe storage 12 3	
.2.1	Conditions for Safe Stora	ge, including any Incompatibilities ages tightly closed during handling and stor	rage.
7.3	Specific End Use(s) Product for analytical use.		
Sect	on 8: Exposure Contro	ols/Personal Protection	
8.1	Control Parameters		
	125 mL NE Chemical: chemicals/mi	xture < 1%	CAS No.: -
	75 mL NT Chemical: guanidinium a DNEL: DNEL = Derived No-Effec	[inĥ] 1092 µg/m³	CAS No.: 593-84-0
	PNEC _(fresh water) : PNEC = Predicted No Eff	42.4 μg/L	
	NIOSH:	not listed	
	[TWA] Time-weighted ave OSHA:	erage to a reference period of 8 hours, [STEL] Short-to	term exposure limit related to a 15-minute period
	USHA.	not listed	

100 mL NT3

chemicals/mixture < 1% Chemical:

CAS No.: -

8.2 **Exposure Controls**

Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities. The highest level of cleanliness must be maintained at the workplace.

8.2.1 **Respiratory Protection**

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	No additional recommendations	L.	
8.2.2	Hand Protection Yes, gloves (permeation time ≻ resistant Latex gloves f.ex. with	30 min - level 2), consist of PVC, Natural latex, Neopren, or Nitril. Use for sł code EN 374-3 level 1.	nort times chemical
8.2.3	Eye/Face Protection Yes, Splash Goggles.		
8.2.4	Skin Protection Not necessary.		
8.2.5	with the skin, eyes and clothing	g snuff and storage of food in work areas and at outdoor workplaces is proh . Rinse any clothing on which the substance has been spilled, and soak it in when stopping work and before eating, and then apply protective skin crea	water. Wash hands

Section 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

125 ml NE

125 m			
a)	Appearance: liquid	Color: colorless	b) Odor: odorless
c)	Odor Threshold:	data not available	
d)	pH:	8-9	
e)	Melting Point:	data not available	
f)	Boiling Point:	data not available	
g)	Flash Point:	data not available	
ĥ)	Evaporation Rate _(ether=1) :	data not available	
i)	Flammability (solid, gas):	data not available	
j)	Explosive Limits:	data not available	
k)	Vapor Pressure (68°F):	data not available	
I)	Vapor Density _(air=1) :	data not available	
m)	Specific Gravity:	1.0 g/cm ³	
n)	Soluble in Water:	data not available	
o)	Partition Coefficient (o-w):	data not available	
p)	Autoignition Temperature:	data not available	
q)	Decomposition temperature:		
r)	Viscosity:	data not available	
s)	Explosive properties:	data not available	
t)	Oxidizing properties:		
,			
75 mL	NT		
a)	Appearance: liquid	Color: colorless	b) Odor: acetic
c)	Odor Threshold:	data not available	
d)	pH:	4.5-5.5	
e)	Melting Point:	data not available	
f)	Boiling Point:	data not available	
g)	Flash Point:	data not available	
9) h)	Evaporation Rate _(ether=1) :	data not available	
i)	Flammability (solid, gas):	data not available	
j)	Explosive Limits:	data not available	
k)	Vapor Pressure (68°F):	data not available	
I)	Vapor Density _(air=1) :	data not available	
m)	Specific Gravity:	1.12 g/cm ³	
n)	Soluble in Water:	data not available	
o)	Partition Coefficient (o-w):	data not available	
p)	Autoignition Temperature:	data not available	
q)	Decomposition temperature:		
r)	Viscosity:	data not available	
s)	Explosive properties:	data not available	
t)	Oxidizing properties:		
,	01 1		
100 m	I NT3		
a)		Color: colorless	b) Odor: odorless
	Appearance: liquid Odor Threshold:		
c) d)		data not available 7-8	
d) e)	pH: Melting Point:		
e) f)	Melting Point: Boiling Point:	data not available	
f)		data not available	



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g) h) i)	Flash Point: Evaporation Rate _(ether=1) : Flammability (solid, gas):	data not available data not available data not available
j)	Explosive Limits:	data not available
k)	Vapor Pressure (68°F):	data not available
I)	Vapor Density _(air=1) :	data not available
m)	Specific Gravity:	1.00 g/cm³
n)	Soluble in Water:	data not available
o)	Partition Coefficient (o-w):	data not available
p)	Autoignition Temperature:	data not available
q)	Decomposition temperature:	data not available
r)	Viscosity:	data not available
s)	Explosive properties:	data not available
t)	Oxidizing properties:	

9.2 Other Information

Data for the other parameters of the mixtures are not available. **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** Can form very reactive substances with oxidizing agents. Possibility: Contact with acids liberates toxic gas. No further data available.

10.4 Conditions to avoid

10.5 **Incompatible Materials**

Not necessary. 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 chemicals. Quantitative data on the toxicity of this product are not available.

125 mL NE

Chemical:	chemicals/mixture < 1%	CAS No.: -
TSCA Inventory:	all listed. <1%	

75 mL NT

Chemical:	guanidinium thiocyanate		CAS No.: 593-84-0
TSCA Inventory:	listed	California Prop. 65 List: not listed	
Canada CEPA 1999:	DSL yes		
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		
	e after oral intake, impairmen	ts of health when ingested in small qua	antities.
100 mL NT3			

chemicals/mixture < 1% CAS No .: -Chemical: all listed, <1% **TSCA** Inventory:



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Secti	on 12: Ecological	Information		
12.1	Toxicity Following information is	s valid for pure chemicals.		
	125 mL NE	·		
	Chemical:	chemicals/mixture < 1%	CAS No.: -	
	Environmental h	guanidinium thiocyanate tic life with long lasting effects. Avoid contact of che azards must not be labelled with P phrases until 12 : 42.4 μg/L o Effected Concentration		
	LC50fish/96h : EC50daphnia/48h IC50scenedesmus EC10pseudomona Partition Coeffici	quadricauda/72h : 130 mg/L s putita/16h : [10d] 200 mg/L		
	100 mL NT3 Chemical:	chemicals/mixture < 1%	CAS No.: -	
12.2	Persistence and De	gradability		
12.3	Bioaccumulative Pennot necessary	otential		
12.4	Mobility in Soil not necessary			
12.5	Results of PBT and no data available	vPvB Assessment		
12.6	Other Adverse Effe no additional data availab			
Secti	on 13: Disposal Co	onsiderations		
P		May form toxic gases. ns for collection and disposal of hazardous waste a e disposal (RCRA Code D002/D003, EU waste coc		ill obtain
13.1	Waste Treatment M Normally it is possible to e	ethods empty small amounts (diluted!) into drains.		
Secti	on 14: Transport I	nformation		
1	4.1 - 14.4: No dangerous goo	ods according the Transport regulations		
14.5	Environmental Haz none, contains only small	ards quantities of hazardous substances, contains only	small amounts of these substances	
14.6	Special Precaution not necessary	s for User		
14.7	Transport in Bulk a not applicable	ccording to Annex II of MARPOL and t	he IBC Code	

Section 15: Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture **U.S. Federal Regulations**

OSHA "A Guide to The Globally Harmonized System of Classification and Labelling of Chemicals (GHS)" https://www.osha.gov/dsg/hazcom/ghs.html 29 CFR 1910.1200 Hazard communication. NIOSH Pocket Guide to Chemical Hazards

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	NIOSH Workplace Safety & Health	Topics	
	TSCA Inventory		
	U.S. State Regulations California Prop 65 Safe Drinking W	ater and Toxic Enforcement Act of 1986	
	Canada		
	Canada CEPA 1999 - Domestic Sub	ostances List (DSL), List of Toxic Substances (Schedule 1)	
I	MN Leaflet/User manual, also see w	/ww.mn-net.com	
15.2	Chemical Safety Assessme	ent	
r	not necessary for these small amo	ounts	
• •••••••••••••••••••••••••••••••••••			
Section	16: Other Information		
16 1	List of Hazard and Procession Phrases		

16.1 List of Hazard and Precaution Phrases

16.1.1 List of relevant H Phrases Harmful if swallowed. H302 Harmful to aquatic life with long lasting effects. H412 16.1.2 List of relevant P Phrases 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. P330 Rinse mouth.

16.2 Training Advice

Regular safety training.

16.3 **Recommended Restriction on Use**

Only for Professional User.

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

GHS: EU Regulation 1272/2008/EC on Classification, Labelling and Packaging of Substances and Mixtures, amending and repealing EU Directives 67/548/EEC and 1999/45/EC, and amending EU Regulation 1907/2006/EC SDS: EU Regulation 453/2010/EU REACH - Requirements for the Compilation of Safety Data Sheets KÜHN, BIRETT (German), Data Sheets of Hazardous Substances

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Revisions/Updates

Reason for Revision: 2016-03 Adaptation of European Regulation 1221/2015/EU

You find our current Versions of SDS in Internet: http://www.mn-net.com/SDS [U.S. English]

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