CHEREY-NAGE

Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740949.50	NucleoSpin RNA Plant (50)	Page: 1/18
Printing Date: 04.04.2023	Date of Issue: 03.03.2023	Version: 2.2.7.9

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

1.1 **Product Identifier / Product Name**

1 x 7 mL DRB

1 x 25 mL RA1

1 x 12 mL RA3

1 x 25 mL MDB 1 x 25 mL Buffer RAP

1 x 13 mL RAW2

REF Product Name

740949.50 NucleoSpin RNA Plant (50)

UFI: 8SGV-63EY-520U-3WWU

UFI: 1A6V-H3H9-G20E-ACTR UFI: Q9TV-D321-520S-HTM0

UFI: M48V-530M-W20T-7J23 UFI: A57V-K3E8-J20C-XSND

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 and of the Safety Data Sheet Manufactured by: MACHEREY-NAGEL GmbH & Co. KG

1 x 1000 U rDNase Size F (lyo)

1 x 13 mL H 2 O (RNase free)

Valencienner Str. 11, 52355 Düren, Germany Phone: +49 2421 969 0

1.4 **Emergency Telephone Number**

Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service. USA: American Association Of Poison Control Centers Rockville, MD 20857. tel. 1-800-222-1222, <https://www.poisonhelp.org>

DE: Gemeinsames Giftinformationszentrum (GGIZ)

99089 Erfurt tel. +49 361 730 730 <https://www.ggiz-erfurt.de>

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

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

You find our current versions of SDS in Internet:

SECTION 2: Hazard(s) Identification

Signal Word

H F F F F F F

2.0 **Classification of the complete Product**



GHS02 GHS07

DANGER

Hazard Identification	Hazard Classes/Categories
4226	Flam. Lig. 3
H302	Acute Tox. 4 oral
H315	Skin Irrit. 2
H319	Eye Irrit. 2
1334	Resp. Sens. 1
-1412	Aquatic Chronic 3

2.1 Classification of the substance or mixture



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Trinking Date: 01.01.2020		Voloioni. E.E.I
25 mL Buffer RAP		

	\land
	GHS07 WARNING
Signal Word	
Hazard Identification	Hazard Classes/Categories
H302 H315	Acute Tox. 4 oral Skin Irrit. 2
H319	Eye Irrit. 2
13 mL RAW2	
	GHS02 GHS07
Signal Word	WARNING
Hazard Identification	Hazard Classes/Categories
H226 H302	Flam. Liq. 3 Acute Tox. 4 oral
H315 H319	Skin Irrit. 2 Eye Irrit. 2
	,
25 mL RA1	
	GHS07
Signal Word	WARNING
Hazard Identification	Hazard Classes/Categories
H302	Acute Tox. 4 oral
H412	Aquatic Chronic 3
25 mL MDB	
	•
	\checkmark
	GHS02
Signal Word	WARNING
Hazard Identification	Hazard Classes/Categories
H226	Flam. Liq. 3
13 mL H 2 O (RNase free)	
	Do not need labelling as hazardous
Signal Word	-
No Hazard Class	



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Software: M2 V 6.1.1.5



Safety Data Sheet

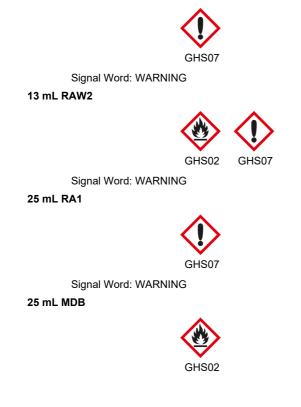
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1000 U rDNase Size F (Iyo)		
	\wedge	
	GHS08	
Signal Word	DANGER	
Hazard Identification	Hazard Classes/Categories	
H334	Resp. Sens. 1	
12 mL RA3		
Signal Word	Do not need labelling as hazardous -	
No Hazard Class		
7 mL DRB		
Signal Word	Do not need labelling as hazardous -	
No Hazard Class		
List of H phrases: see section 16.2		
2.2 Safety, Health and Environ	mental Regulations/Legislation specific for the	e Substance or Mixture

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 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) / until 100 mL (Canada WHMIS 2015). This labelling exemption does not apply to U.S.A. This labelling exemption is NOT valid for sensibilizing substances.

25 mL Buffer RAP





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Signal Word: WAR		

Signal Word: WARNING

13 mL H ₂ **O (RNase free)** Do not need labelling as hazardous Signal Word: -

1000 U rDNase Size F (Iyo)



GHS08

Signal Word: DANGER H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. P261sh, P342+311 Avoid breathing dust/vapors.lf experiencing respiratory symptoms: Call a POISON CENTER/doctor.

12 mL RA3

Do not need labelling as hazardous Signal Word: -

7 mL DRB

Do not need labelling as hazardous Signal Word: -

Label elements of the complete product



Signal Word: DANGER H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. P261sh, P342+311 Avoid breathing dust/vapors.If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

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

Kit contains small amounts of enzymes, which may cause sensitization by direct and repeated contact.

Information pertaining to particular Risks to the Environment

PBT: not applicable

vPvB: not applicable

Possible endocrine disrupting effects

data not available

SECTION 3: Composition/Information on Ingredients

3.1 Substances or 3.2 Mixtures

13 mL RAW2



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Printing Date: 04.04.2023	Date of Issue: 03.03.2023	Version: 2.2.7.9
Substance name: CAS No.:	guanidine hydrochloride 50-01-1	
Substance rating: Chemical Formula: Synonyms (de): REACH Reg. No.: EC No.: Concentration: acc. GHS:	H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2 CH ₆ CIN ₃ Guanidiniumchlorid 01-2119977063-35-0005 200-002-3 Indice No.: 607-148-00-0 24 - <36 % H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2	
Substance name: CAS No.: Substance rating: Chemical Formula: Synonyms (de): REACH Reg. No.: EC No.: Concentration: acc. GHS:	ethanol 64-17-5 (denatured with 1% 2-butanone) H225, Flam. Liq. 2 C ₂ H ₆ O; C ₂ H ₅ OH Äthylalkohol, vergällter Spiritus 01-2119457610-43-xxxx 200-578-6 Indice No.: 603-002-00-5 20 - <35 % H226, Flam. Liq. 3	
1000 U rDNase Size F (Iyo) Substance name: CAS No.:	<i>rDNase</i> 9003-98-9	
Substance rating: Chemical Formula: Synonyms (de): EC No.: Concentration: acc. GHS:	H334, Resp. Sens. 1 Enzyme Comm. No. 3.1.21.1, _{origin: cloned} Deoxyribonucleodepolymerase 232-667-0 90 - <100 % H334, Resp. Sens. 1	
12 mL RA3 Substance name: CAS No.:	chemicals/mixture until 1% -	
Substance rating: Concentration: acc. GHS:	No criteria for classification or naming of chemical is not required. 0,1 - <1 % The criteria for classification are not fulfilled.	
7 mL DRB Substance name: CAS No.:	chemicals/mixture until 2% -	
Substance rating: Concentration: acc. GHS:	No criteria for classification or naming of chemical is not required. 1 - <2 $\%$ The criteria for classification are not fulfilled.	
25 mL Buffer RAP Substance name: CAS No.:	guanidine hydrochloride 50-01-1	
Substance rating: Chemical Formula: Synonyms (de): REACH Reg. No.: EC No.: Concentration: acc. GHS:	H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2 CH ₆ ClN ₃ Guanidiniumchlorid 01-2119977063-35-0005 200-002-3 Indice No.: 607-148-00-0 50 - <66 % H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2	

25 mL MDB



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	Substance name: CAS No.:	<i>ethanol</i> 64-17-5 (denatured with 1% 2-butanone)		
	Substance rating: Chemical Formula:	H225, Flam. Liq. 2 C ₂ H ₆ O; C ₂ H ₅ OH		
	Synonyms (de): REACH Reg. No.: EC No.:	Åthylalkohol, vergällter Spiritus 01-2119457610-43-xxxx 200-578-6	Indice No.:	603-002-00-5
	Concentration: acc. GHS:	5 - <20 % H226, Flam. Liq. 3		000-002-00-0
	Substance name: CAS No.:	guanidinium thiocyanate 593-84-0		
	Substance rating: H412, Aquatic Chror		ute Tox. 4 derm., H	314, Skin Corr. 1C, H332, Acute Tox. 4 i
	Chemical Formula: Synonyms (de): REACH Reg. No.:	C ₂ H ₆ N ₄ S Guanidiniumrhodanid 01-2120735072-65-0001		
	EC No.: Concentration: acc. GHS:	209-812-1 5 - <10 % The criteria for classification are not fulfiller	Indice No.:	615-004-00-3
			•	
25 mL		quanidinium this success		
	Substance name: CAS No.:	guanidinium thiocyanate 593-84-0		
	Substance rating: H412, Aquatic Chror	nic 3	ute Tox. 4 derm., H	314, Skin Corr. 1C, H332, Acute Tox. 4 i
	Chemical Formula: Synonyms (de): REACH Reg. No.:	C ₂ H ₆ N ₄ S Guanidiniumrhodanid 01-2120735072-65-0001		
	EC No.: Concentration:	209-812-1 45 - <60 %	Indice No.:	615-004-00-3
	acc. GHS:	H302, Acute Tox. 4 oral, H412, Ac	uatic Chronic 3	
13 mL	H ₂ O (RNase free)			
	Substance name: CAS No.:	<i>water</i> 7732-18-5		
	Substance rating: Chemical Formula:	No criteria for classification or naming of ch H_2O	nemical is not required.	
	REACH Reg. No.: EC No.:	exempt, Annex IV 231-791-2		
	Concentration: acc. GHS:	90 - <100 % The criteria for classification are not fulfilled	1.	
3 Remarks				
	-	added with water ICAS No. 7732-18	-5] to 100% List of L	Hazard and Precaution phrases: see sec

When not listed, mixtures are added with water [CAS No. 7732-18-5] to 100%.List of Hazard and Precaution phrases: see section 16.2.

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. Take to a doctor, in a raised position if there are breathing difficulties.

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).



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4.1.3 After INHALATION of Vapors

After inhalation of foam or vapor fresh air should be inhaled. 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 should be drunk after it has been ingested.

4.2 Most important Symptoms and Effects, both acute and delayed

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Chronic effects: Repeated contact, even in small amounts, can lead to sensitization.

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: Fire-Fighting Measures

5.1 Extinguishable Media

5.1.1 Suitable 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.

5.1.2 Unsuitable extinguishing media

data not available

5.2 Special Hazards arising from the Substance or Mixture

WARNING: Flammable. May form explosive vapor-air mixtures. Formation of hazardous and caustic vapor-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 Procedure

Do not breathe vapors. 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 PBT: not applicable vPvB: not applicable

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 hazards. Clean any contaminated equipment and floors with plenty of water. Collect small amounts of leaked liquid and flush with water into sewer.

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, including any Incompatibilities The original product package allows a safe storage. Storage class (German chemical industry): see chapter 12.1 Storage class (VCI): 3 Water hazard class (DE): 3



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1 minung	J Date: 04.04.2020	Date of 13500. 00.00.2020	, Volsion. 2.2
.2.1		ck rooms and containers ages tightly closed during handling and storage.	
. 3		ages lightly closed during handling and storage.	
.3	Specific End Use(s) Product for analytical use.		
SECT	ION 8: Exposure C	ontrols/Personal Protection	
3.1	Control Parameters		
	13 mL RAW2 Chemical: <i>quanidii</i>	ne hydrochloride	CAS No.: 50-01-1
	DNEL:	[inh] 3.5 mg/m ³	
		p-Effect Level (for workers)	
	PNEC (fresh water) : PNEC = Predicted	- No Effected Concentration	
	NIOSH:	not listed ed average to a reference period of 8 hours, [STEL] Short-te	erm exposure limit related to a 15 minute period
	OSHA:	not listed	sini exposure linit related to a 13-minute period
	Chemical: ethanol DNEL:	[derm] 343 mg/kg; [inh] 950 mg/m³	CAS No.: 64-17-5
	DNEL = Derived No	p-Effect Level (for workers)	
	PNEC (fresh water): PNEC = Predicted	0.96 mg/L No Effected Concentration	
	NIOSH:	[TWA] 1000 ppm / 1900 mg/m ³	
		ed average to a reference period of 8 hours, [STEL] Short-te	erm exposure limit related to a 15-minute period
	OSHA:	1000 ppm / 1900 mg/m³	
	1000 U rDNase Size F (Iyo)		
	Chemical: rDNase		CAS No.: 9003-98-9
	40 1 540		
	12 mL RA3 Chemical: chemica	als/mixture until 1%	CAS No.: -
	enemical. enemice		
	7 mL DRB		
	Chemical: chemica	als/mixture until 2%	CAS No.: -
	25 mL Buffer RAP		
		ne hydrochloride	CAS No.: 50-01-1
	DNEL:	[inh] 3.5 mg/m³ -Effect Level (for workers)	
	PNEC (fresh water)	-	
	PNEC = Predicted	No Effected Concentration	
	NIOSH: [TWA] Time-weight	not listed ed average to a reference period of 8 hours, [STEL] Short-te	erm exposure limit related to a 15-minute period
	OSHA:	not listed	
	25 mL MDB		040 N = 04 47 5
	Chemical: ethanol DNEL:	[derm] 343 mg/kg; [inh] 950 mg/m³	CAS No.: 64-17-5
	DNEL = Derived No	p-Effect Level (for workers)	
	PNEC (fresh water) : PNEC = Predicted	0.96 mg/L No Effected Concentration	
	NIOSH:	[TWA] 1000 ppm / 1900 mg/m³	
	[TWA] Time-weight OSHA:	ed average to a reference period of 8 hours, [STEL] Short-te 1000 ppm / 1900 mq/m³	erm exposure limit related to a 15-minute period
	USHA.		
		nium thiocyanate	CAS No.: 593-84-0
	DNEL: DNEL = Derived No	[inh] 1092 µg/m³ p-Effect Level (for workers)	
	PNEC (fresh water):	42.4 µg/L	
	PNEC = Predicted NIOSH:	No Effected Concentration not listed	
		ed average to a reference period of 8 hours, [STEL] Short-te	erm exposure limit related to a 15-minute period
	OSHA:	not listed	





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	25 mL RA1 Chemical: guanidinium th DNEL: DNEL = Derived No-Effect PNEC (fresh water):	[inh] 1092 μg/m³ Level (for workers) 42.4 μg/L	CAS No.: 593-84	I-0
	PNEC = Predicted No Effe	cted Concentration not listed rage to a reference period of 8 hours, [STEL] Sho not listed	rt-term exposure limit related to a 15-minute per	riod
	13 mL H ₂ O (RNase free) Chemical: <i>water</i>		CAS No.: 7732-1	8-5
	Exposure Controls Good ventilation and extraction sy level of cleanliness must be main	ystem in the room, floor resistant to che tained at the workplace.	micals with floor drainage and washin	g facilities. The highest
.2.1	Respiratory Protection Use for open access of these	tory Protection open access of these substances for example a vapor/dust respirator, class A/AX. No additional recommendations.		
3.2.2	Skin protection / Hand protection Yes, gloves (permeation time >30 min - level 2), consist of PVC, Natural latex, Neopren, or Nitril. Use for short times chemical resistant Latex gloves f.ex. with code EN 374-3 level 1.		short times chemical	
3.2.3	Eye / Face Protection Yes, Splash Goggles.			
3.2.4	Skin Protection Recommended to avoid cont	tamination with these hazards.		
8.2.5	with the skin, eyes and clothi	king snuff and storage of food in work a ing. Rinse any clothing on which the sub ter when stopping work and before eati	ostance has been spilled, and soak it i	n water. Wash hands
3.2.6	Thermal hazards			

data not available

8.3 Limitation and monitoring of environmental exposure

Do not release product into environment.

SECTION 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

13 mL RAW2

13 IIL RAWZ	
a) State of aggregation: b) Color:	liquid colorless
c) Odor:	alcoholic
d) Melting Point:	data not available
e) Boiling Point:	data not available
f) Flammability:	data not available
g) Explosive Limits (lower / upper):	data not available 28 °C
h) Flash Point:	28 C
i) Autoignition Temperature:	data not available
j) Decomposition Temperature:	data not available
k) pH Value:	6.5-7.5
I) Kinematic Viscosity:	data not available
m) Soluble in Water:	data not available
n) Partition Coefficient (o/w):	data not available
o) Vapor Pressure (68°F):	data not available
p) Specific Gravity:	1.03-1.06 g/cm³
q) Relative Vapor Density _(air=1) :	data not available
r) Particle Size:	data not available



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1000 U rDNase Size F (Iyo)		
a) State of aggregation:	solid (lyophilized)	
b) Color:	white	
c) Odor:	odorless	
d) Melting Point:	data not available	
e) Boiling Point:	data not available	
f) Flammability:	data not available	
g) Explosive Limits (lower / upper):	data not available	
h) Flash Point: i) Autoignition Temperature:	data not available	
j) Decomposition Temperature:	data not available data not available	
k) pH Value:	data not available	
I) Kinematic Viscosity:	data not available	
m) Soluble in Water.	data not available	
n) Partition Coefficient (o/w) :	data not available	
o) Vapor Pressure (68°F):	data not available	
p) Specific Gravity:	data not available	
q) Relative Vapor Density _(air=1) :	data not available	
r) Particle Size:	data not available	
12 mL RA3		
a) State of aggregation:	liquid	
b) Color:	colorless	
c) Odor:	odorless	
d) Melting Point:	data not available	
e) Boiling Point:	data not available	
f) Flammability:	data not available	
g) Explosive Limits (lower / upper):	data not available	
h) Flash Point:	data not available	
i) Autoignition Temperature:	data not available	
j) Decomposition Temperature:	data not available 7-8	
k) pH Value: I) Kinematic Viscosity:		
m) Soluble in Water:	data not available data not available	
n) Partition Coefficient (o/w):	data not available	
o) Vapor Pressure (68°F):	data not available	
p) Specific Gravity:	1.00 g/cm ³	
q) Relative Vapor Density (air=1):	data not available	
r) Particle Size:	data not available	
7 mL DRB		
a) State of aggregation:	liquid	
b) Color:	colorless	
c) Odor:	odorless	
d) Melting Point:	data not available	
e) Boiling Point:	data not available	
f) Flammability:	data not available	
 g) Explosive Limits (lower / upper): b) Electrophysical Sector 	data not available	
h) Flash Point:	data not available	
i) Autoignition Temperature: j) Decomposition Temperature:	data not available	
k) pH Value:	data not available 6.5-7.5	
I) Kinematic Viscosity:	data not available	
m) Soluble in Water:	data not available data not available	
n) Partition Coefficient (o/w):	data not available	
o) Vapor Pressure (68°F):	data not available	
p) Specific Gravity:	1.01 g/cm ³	
q) Relative Vapor Density _(air=1) : r) Particle Size:	data not available data not available	
25 mL Buffer RAP	P	
a) State of aggregation:	liquid	
b) Color:	colorless	
c) Odor: d) Melting Point:	odorless	
	data not available	



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Safety Data Sheet

SDS acc. Hazard Communication Standard

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e) Boiling Point:			
f) Flammability:	data not available		
g) Explosive Limits (lower / upper):	data not available		
h) Flash Point:	data not available		
i) Autoignition Temperature:	data not available		
j) Decomposition Temperature:	data not available		
k) pH Value:	data not available 4.5-5.0		
I) Kinematic Viscosity:			
m) Soluble in Water:	data not available		
n) Partition Coefficient (o/w) :	data not available		
	data not available		
o) Vapor Pressure (68°F):	data not available		
p) Specific Gravity:	1.18 g/cm ³		
q) Relative Vapor Density _(air=1) :	data not available		
r) Particle Size:	data not available		
25 mL MDB a) State of aggregation:	liquid		
b) Color:	colorless		
/			
c) Odor: d) Malting Baint:	alcoholic		
d) Melting Point:	data not available		
e) Boiling Point:	data not available		
f) Flammability:	data not available		
g) Explosive Limits (lower / upper): h) Flash Point:	data not available 55 °C		
i) Autoignition Temperature:	data not available		
 j) Decomposition Temperature: 	data not available		
k) pH Value:	6.7-7.2		
 Kinematic Viscosity: 	data not available		
m) Soluble in Water:	data not available		
n) Partition Coefficient (o/w):	data not available		
o) Vapor Pressure (68°F):	data not available		
p) Specific Gravity:	1.01 g/cm ³		
q) Relative Vapor Density (air=1):	data not available		
r) Particle Size:	data not available		
25 mL RA1	line and		
a) State of aggregation:	liquid		
b) Color:	colorless		
c) Odor:	odorless		
d) Melting Point:	data not available		
e) Boiling Point:	data not available		
f) Flammability:	data not available		
g) Explosive Limits (lower / upper):	data not available		
h) Flash Point:	data not available		
i) Autoignition Temperature:	data not available		
j) Decomposition Temperature:	data not available		
k) pH Value:	6.5-7.5		
I) Kinematic Viscosity:	data not available		
m) Soluble in Water:	data not available		
n) Partition Coefficient (-(-))			

n) Soluble in Water:
n) Partition Coefficient (o/w):
o) Vapor Pressure (68°F):
p) Specific Gravity:
q) Relative Vapor Density (air=1):
r) Particle Size:

13 mL H 2 O (RNase free)
a) State of aggregation:
b) Color:
c) Odor:
d) Melting Point:
e) Boiling Point:
f) Flammability:
g) Explosive Limits (lower / upper):
h) Flash Point:



MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11 52355 Düren · Germany www.mn-net.com data not available 1.13 g/cm³ data not available data not available liquid colorless

data not available

colorless odorless data not available data not available data not available data not available data not available

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i) Autoignition Temperature:	data not available		
i) Decomposition Temperature	data nat available		

i) Autoignition Temperature:
j) Decomposition Temperature:
k) pH Value:
l) Kinematic Viscosity:
m) Soluble in Water:
n) Partition Coefficient (o/w):
o) Vapor Pressure (68°F):
p) Specific Gravity:
q) Relative Vapor Density (air=1):
r) Particle Size:

data not available data not available 6-8 data not available data not available data not available data not available 1.0 g/cm³ data not available data not available

9.2 Further Information

No data is available for the other parameters for the mixtures, since no registration and no chemical safety report is required. **Properties relevant to substance groups**

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: &H:EUH031& No further data available.

10.4 Conditions to avoid

No more required.

- 10.5 Incompatible Materials
- 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.

13 mL RAW2			
Chemical: guan	idine hydrochloride		CAS No.: 50-01-1
TSCA Inventory:	listed	California Prop. 65 List: not listed	
Canada CEPA 1999:	DSL yes		
LD50 orl rat :	475-907 mg/kg		
LC50 ihl rat :	3181-7655 µg/m³/4H		
Acute Effects: Cause after of	oral intake, impairments	of health when ingested in small qua	intities.
Chemical: ethan	ol		CAS No.: 64-17-5
TSCA Inventory:	listed	California Prop. 65 List: not listed	
ACGIH:	1000 ppm		
Exposure Routes:	inhalation, ingestion,	skin and/or eye contact	
Target Organs:		y system, central nervous system, live	
Symptoms:	irritation eyes, skin, n	ose; headache, drowsiness, lassitude	e (weakness, exhaustion), narcosis; cough;
liver damage; anemia; repro	oductive, teratogenic		
Canada CEPA 1999:	DSL yes		
LD50 orl rat :	6200 mg/kg		
LC_Low ihl gpg :	21,900 mg/L		
LC_Low orl hmn :	1400 mg/kg		
LC50 ihl mus :	123,4 mg/L/4H		
LC50 ihl rat :	115,9-133,8 mg/L/4H		
LD50 _{orl mus} :	3450 mg/kg		





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	Chronic Effects: May	rDNase listed after impairments of health v	vhen ingested in small quantities. ontact, also in repeated contact of sn	CAS No.: 9003-98-9 nall amounts. May cause allergy or asthm
	12 mL RA3 Chemical: TSCA Inventory:	chemicals/mixture until 1% all listed, <1%		CAS No.: -
	7 mL DRB Chemical: TSCA Inventory:	chemicals/mixture until 2% all listed, <2%		CAS No.: -
	25 mL Buffer RAP Chemical: TSCA Inventory: Canada CEPA 1999: LD50 orl rat : LC50 ihl rat : Acute Effects: Cause	475-907 mg/kg 3181-7655 µg/m³/4⊢	California Prop. 65 List: not listed I s of health when ingested in small qu	CAS No.: 50-01-1
	25 mL MDB Chemical: TSCA Inventory: ACGIH:	ethanol listed 1000 ppm	California Prop. 65 List: not listed	CAS No.: 64-17-5
	Exposure Routes: Target Organs: Symptoms: liver damage; anemia Canada CEPA 1999: LD50 orl rat : LC_Low ihl gpg : LC_Low orl hmn : LC50 ihl mus : LC50 ihl rat : LD50 orl mus :	Eyes, skin, respirato irritation eyes, skin, i a; reproductive, teratogenic		ver, blood, reproductive system le (weakness, exhaustion), narcosis; couç
	Chemical: TSCA Inventory: Canada CEPA 1999: LD50 _{orl rat} : LC50 _{ihl rat} :	guanidinium thiocyanate listed DSL yes 593 mg/kg 5,319 mg/L/4H	California Prop. 65 List: not listed	CAS No.: 593-84-0
	25 mL RA1 Chemical: TSCA Inventory: Canada CEPA 1999: LD50 ori rat : LC50 ihi rat :	593 mg/kg 5,319 mg/L/4H	California Prop. 65 List: not listed s of health when ingested in small qu	CAS No.: 593-84-0
	13 mL H ₂ O (RNase Chemical: TSCA Inventory: LD50 _{orl rat} :		s of nearth when ingested in sman qu	CAS No.: 7732-18-5
11.2	Other Hazards			
	Possible endocrine data not available	disrupting effects		
	Other Information			

Other Information no additional data available



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	g Date: 04.04.2023		Date of Issue: 03.03.2023		Version: 2.2.7.9
SECT	ION 12: Ecologic	al Informa	ation		
12.1	Toxicity				
	Following information	is valid for pu	e chemicals.		
	13 mL RAW2				
	Chemical:	guanidine hy		CAS No.: 50-01-1	
	PNEC (fresh water) : PNEC = Predicted No Ef	fected Concentration	- on		
	LC50 leuciscus idus/96	ih :	1759 mg/L [4d] 690-1850; [48h] 1758-2420 mg/L		
	LC50 _{fish/96h} : EC50 _{daphnia/48h} :		70.2 mg/L		
	EC10 pseudomonas pu	utita/16h	[72h] 11.8-33.5 mg/L		
	Chemical:	ethanol		CAS No.: 64-17-5	
	PNEC (fresh water) : PNEC = Predicted No Ef	Fastad Canaantrati	0.96 mg/L		
	LC50 daphnia magna/4		>100 g/L		
	LC50 pimephales prom	elas/96h	13.4-15.1 g/L		
	LC50 leuciscus idus/96 LC50 fish/96h :	ih :	[48h] 8.14 g/L 13 g/L		
	EC50 daphnia/48h :		9.3-14.2 g/L		
	IC50 scenedesmus qua		[7d] 5000 mg/L		
	EC10 _{pseudomonas pu} Partition Coefficient		[EC5] 6500 mg/L -0,31		
		()			
	1000 U rDNase Siz Chemical:	e F (lyo) rDNase		CAS No.: 9003-98-9	
	Chemical.	IDNase		CAS NO.: 9003-90-9	
	12 mL RA3				
	Chemical:	chemicals/m	ixture until 1%	CAS No.: -	
	7 mL DRB				
	Chemical:	chemicals/m	ixture until 2%	CAS No.: -	
	25 mL Buffer RAP Chemical:	guanidine hy	rdrochloride	CAS No.: 50-01-1	
	PNEC (fresh water) : PNEC = Predicted No Ef				
	LC50 leuciscus idus/96		1759 mg/L		
	LC50 fish/96h :	41 ·	[4d] 690-1850; [48h] 1758-2420 mg/L		
	EC50 daphnia/48h		70.2 mg/L		
	EC10 pseudomonas pu	utita/16h	[72h] 11.8-33.5 mg/L		
	25 mL MDB				
	Chemical:	ethanol	0.00	CAS No.: 64-17-5	
	PNEC (fresh water) : PNEC = Predicted No Ef	fected Concentration	0.96 mg/L		
	LC50 daphnia magna/4		>100 g/L		
	LC50 pimephales prom LC50 leuciscus idus/96		13.4-15.1 g/L [48h] 8.14 g/L		
	LC50 fish/96h :	41 ·	13 g/L		
	EC50 daphnia/48h		9.3-14.2 g/L		
	IC50 _{scenedesmus} qua EC10 pseudomonas pi		[7d] 5000 mg/L [EC5] 6500 mg/L		
	Partition Coefficient		-0,31		
	Chemical:	guanidinium	thiocyanate	CAS No.: 593-84-0	
	PNEC (fresh water) PNEC = Predicted No Ef				
	LC50 fish/96h :	Concentratio	[4d] 89.1 mg/L		
	EC50 daphnia/48h :		42.4 mg/L		
	IC50 scenedesmus qua		130 mg/L [10d] 200 mg/L		
	EC10 _{pseudomonas pu} Partition Coefficient		-1,11 pH 5.1		
		× · /			



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CAS No.: 593-84-0 al/mixture to environment. L (EU-CLP 1272/2008 Annex I - 1.5.2).
CAS No.: 7732-18-5
sistent, bioaccumulative and toxic (PBT) or very persisten

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 (RCRA Code D002/D003, EU 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

UN/NA 1993 Class 3 III, **Excepted Quantities** (≤30 mL/∑≤1 L) = ADR/ IATA E1 or

14.1. UN/NA: 14.3. Hazard Class:	1993 3		Proper Shipping Name: Fla Packing Group: III	mmable liquid, n.o.s	. (ethanol mixture)
Transportation by Ro	ad				
Classification code:	F1				
Limited Quantity:	5 L		Tunnel restriction code:	D/E	
Excepted Quantity:	E 1		Special instructions: 640E		
Air Transportation					
Limited Quantity:		LQ 7			
Excepted Quantity:		E 1			
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, contains only small amounts of these substances



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14.6 Special Precautions for User

not necessary

14.7 Carriage of bulk cargo by sea in accordance with IMO instruments Not applicable.

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 NIOSH Workplace Safety & Health Topics TSCA Inventory **U.S. State Regulations** California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986 **Canada** Canada CEPA 1999 - Domestic Substances List (DSL), List of Toxic Substances (Schedule 1)

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

15.2 Chemical Safety Assessment

not necessary for these small amounts

SECTION 16: Other Information

16.1 Changes compared to the last version

Between versions 2.2.7.9 and 2.2.2.2 following changes were applied: - 5 composition data corrected - 7 substance data corrected

16.2 List of Hazard and Precaution Phrases

List of relevant H Ph	rases
H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H412	Harmful to aquatic life with long lasting effects.

16.2.2 List of relevant P Phrases

16.2.1

P261sh Avoid breathing dust/vapors. P342+311 If experiencing respiratory sy

If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

16.3 Recommended Restriction on Use

Only for Professional User.

Look about employee restrictions for young people! Look about employee restrictions for pregnant women and nursing women! An individual package of this product or test kit has a moderate hazardous potential.

16.4 Sources of Key Data

KÜHN, BIRETT, Leaflets on hazardous materials, 2021

Directive 1999/92/EG Minimum requirements to improve the safety and health protection of workers at risk from potentially explosive atmospheres

SUVA .CH, limit values in the air at work 2009, revised on 01/2009

Regulation 790/2009/EU, adaptation of Regulation 1272/2008/EU to technical and scientific progress (1st ATP)

Regulation 453/2010/EU, adaptation of the REACH regulation 1907/2006/EG

TRGS 907, German technical rules for listing substances and causes of sensitization, updated November 2011 Regulation

487/2013/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (4th ATP)

Regulation 1221/2015/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (7th ATP)

Regulation 776/2017/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (10th ATP)

Regulation 669/2018/EU, adaptation of Regulation 1272/2008/EC to technical and scientific progressText (11th ATP) Regulation 1480/2018/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (13th ATP) Regulation 521/2019/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (12th ATP) TRGS 900, German rules of technology on limit values in the air at work, as of 03/2019 Regulation 217/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (14th ATP) Regulation 878/2020/EU, adaptation of Annex VI of the REACH regulation 1907/2006/EG



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Regulation 1182/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (15th ATP) Regulation 643/2021/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (16th ATP) Regulation 849/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (17th ATP)

revisions/updates

Reason for revision: 2014-02 Corrected structure of the sections according to Regulation 453/2010/EU, if necessary

2014-04 adjustment according Regulation 487/2013/EU

2016-03 adjustment according Regulation 1221/2015/EU 2017–08 adjustment according the Ordinance on Ethanol Denaturation 2016/1867/EU

2017-11 adjustment according the ECHA registration dossier

2022-11 adjustment according Regulation 878/2020/EU

16.5 **Further Information**

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16.6 Legend / Abbreviations

acc:	according
ADR:	Convention concerning the International Carriage of Dangerous Goods by Road
Act:	acute
BAT:	biological workplace tolerance value
CAO:	Cargo Aircraft Only
Carc:	carcinogen
CAS:	Chemical Abstracts Service
CLP:	Classification, Labelling and Packaging regulation
CMR:	carcinogen, mutagen, reproduction toxic
Corr:	corrosive
COD:	chemical oxigen demand
CSCL:	Chemical Substance Control Law (Jp)
Dam:	damage
DNEL:	Derived No-Effect Level (for workers)
derm:	dermal
dog:	dog
EC10:	Concentration causing a toxic effect in 10% of the test organisms
EC:	European Community
EC-Nr:	Substance number of the EC substance inventory
EmS:	Guide to accident management measures on ships
EU:	European Union
fish:	fish (not specified)
GHS:	Global Harmonized System of Classification and Labeling of Chemicals
gpg:	guinea pig
ICAO:	International Civil Aviation Organization
ihl:	inhaled
IMDG:	International Maritime Dangerous Goods Code
intrav:	intravenous
ipt:	intraperitonaeal
ISHL:	Industrial Safety and Health Law (Jp)
LC50:	letale concentration 50%
LD50:	letale dosis 50%
leuciscus idus	
MAK:	maximum workplace concentration
Met:	Metall
mus:	mouse
Muta:	mutagen
NIOSH:	National Institute for Occupational Safety and Health (US)
NRD:	Non-rapidly degradable
onchorhynch	, , ,
orl:	oral
OSHA:	Occupational Safety and Health Administration
PAX:	transport on passenger planes allowed
PAX. PBT:	
	persistent, bioaccumulating, toxic substance
pH:	pH value



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pimephales pr PNEC: PROC 15: PRTR: PVC: quail: rat:	Predicted No Effected Concentration
rbt:	rabbit
RD:	rapidly degradable
RE:	repeated
REACh:	Registration, Evaluation, Authorisation and Restriction of Chemicals
REF:	item number, reference number
Reg.No.:	rRegistration number
Repr:	harmful to reproduction
Resp:	respiratory
scu:	sub cutan
RIP:	REACH Implementations Projects
SDS:	safety data sheet
Sens: STEL:	sensitisation
STOT:	short term exposure limit Specific Target Organ Toxicity
SVHC:	Substance of Very High Concern
t/a:	tons per year
TCCA:	Toxic Chemicals Control Act (S. Korea)
Tox:	toxic
TSCA:	The Toxic Substances Control Act (US)
TWA:	time weighted average
TRGS:	technical regulations (DE)
vPvB:	very persistent, very bioaccumulating substance

16.7 Training Advice

Regular safety training. 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.



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