## Safety Data Sheet

## SDS acc. Hazard Communication Standard

REF: 740130.10	NucleoSpin RNA Stool (10)	Page: 1/22
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## SECTION 1: Identification of the substance/mixture and of the company

### 1.1 Product Identifier / Product Name

REF Product Name 740130.10 NucleoSpin RNA Stool (10)

1 x 13 mL RNase-free H <sub>2</sub> O 1 x 200 U rDNase, RNase free (Iyo) 1 x 6 mL NucleoZOL 1 x 7 mL Reaction Buffer for rDNase 1 x 10 mL RST1 1 x 13 mL RST2 1 x 6 mL RST3 1 x 10 mL RST4 1 x 6 mL RST5 10 x Bead Tubes Type A

UFI: 8SGV-63EY-520U-3WWU UFI: P0YV-730V-1200-WKNJ

UFI: Y01V-43QP-G20R-A6PR UFI: D68V-N3Q1-7209-VVN5 UFI: D21V-N3E2-T207-YJ8T

# 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

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

You find our current versions of SDS in Internet:

<https://www.ggiz-erfurt.de>

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

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

## SECTION 2: Hazard(s) Identification

Signal Word

### 2.0 Classification of the complete Product

GHS02 GHS05

DANGER





Hazard Identification Hazard Classes/Categories H225 Flam. Liq. 2 H301 Acute Tox. 3 oral H311 Acute Tox. 3 derm. Skin Corr. 1B H314 H331 Acute Tox. 3 inh. Resp. Sens. 1 STOT SE 3 H334 H335 Muta. 2 H341 H351 Carc. 2 STOT RE 2 H373 H412 Aquatic Chronic 3



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#### 2.1 Classification of the substance or mixture

6 mL NucleoZOL



DANGER

Signal Word

Hazard Identification	Hazard Classes/Categories
H301	Acute Tox. 3 oral
H311	Acute Tox. 3 derm.
H314	Skin Corr. 1B
H331	Acute Tox. 3 inh.
H341	Muta. 2
H373	STOT RE 2
H412	Aquatic Chronic 3

#### 13 mL RST2



Hazard Identification	Hazard Cl
Signal Word	DANGER

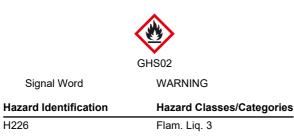
ntification	Hazard Classes/Categories
	Flam. Liq. 2 Eye Irrit. 2 STOT SE 3 Carc. 2

#### 6 mL RST3

H225 H319 H335 H351

	GHS02	GHS07
Signal Word	WAR	NING
Hazard Identification	Haza	rd Classes/Categories
Hazard Identification		rd Classes/Categories
	Flam	
H226	Flam Acute	. Liq. 3

#### 10 mL RST4





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- Software: M2 V 6.1.1.5

#### **CHEREY-NAGEL** MA



## SDS acc. Hazard Communication Standard

	'40130.10 g Date: 04.04.2023	NucleoSpin RNA Stool (10) Date of Issue: 03.03.2023	Page: 3/22 Version: 2.2.5.1
mang			Verbion: 2.2.0.1
	13 mL RNase-free H <sub>2</sub> O	<b>-</b>	
	Signal Word	Do not need labelling as hazardous -	
	No Hazard Class		
	200 U rDNase, RNase free (ly	D)	
		GHS08	
	Signal Word	DANGER	
	Hazard Identification	Hazard Classes/Categories	
	H334	Resp. Sens. 1	
	6 mL RST5		
		Do not need labelling as hazardous	
	Signal Word	-	
	No Hazard Class		
	7 mL Reaction Buffer for rDN	ase	
	Signal Word	Do not need labelling as hazardous -	
	No Hazard Class		
	10 mL RST1		
		Do not need labelling as hazardous	
	Signal Word	-	
	No Hazard Class		
	Bead Tubes Type A		
	Signal Word	Do not need labelling as hazardous -	
	No Hazard Class		
	List of H phrases: see section 16.2		
2	According the implementation of GH word, manufacturer name and phon WARNING and highly flammable ch	mental Regulations/Legislation specific for the Su IS immediate packages only must be labelled with product identific e number (OSHA's interpretation of HCS 2012). Harmful chemicals emicals/mixtures must not be labelled with H and P phrases until IIS 2015). This labelling exemption does not apply to U.S.A. This labelling	ator(s), GHS symbol(s), signal s/mixtures with signal word: <b>125 mL</b> (EU 1272/2008 Annex I
	6 mL NucleoZOL		





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## HEREY-NAGE



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Signal Word: DANGER H301, H311, H314, H331, H341

Toxic if swallowed. Toxic in contact with skin. Causes severe skin burns and eye damage. Toxic if inhaled. Suspected of causing genetic defects.

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

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

#### 13 mL RST2



Signal Word: DANGER H351 Suspected of causing cancer. P201, P280sh Obtain special instructions before use.Wear protective gloves/eye protection.

#### 6 mL RST3



Signal Word: WARNING

#### 10 mL RST4



GHS02

Signal Word: WARNING

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

200 U rDNase, RNase free (Iyo)



GHS08

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.

#### 6 mL RST5

Do not need labelling as hazardous Signal Word: -

#### 7 mL Reaction Buffer for rDNase

Do not need labelling as hazardous Signal Word: -

#### 10 mL RST1

Do not need labelling as hazardous



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Software: M2 V 6.1.1.5



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Signal Word: -

Bead Tubes Type A Do not need labelling as hazardous Signal Word: -

Label elements of the complete product



Signal Word: DANGER

H301, H311, H314, H331, H334, H341, H351

Toxic if swallowed.Toxic in contact with skin.Causes severe skin burns and eye damage.Toxic if inhaled.May cause allergy or asthma symptoms or breathing difficulties if inhaled.Suspected of causing genetic defects.Suspected of causing cancer.

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

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

#### 2.3 Other Hazards

#### **Possible Hazards from physicochemical Properties**

Generally in the case of pH values are less than 2 or higher than 11.5 then it is corrosive. In the case of pH values are less than 5 or higher than 9 then it is irritant. Flammable properties. For guanidine thiocyanate CAS 593-84-0: The properties H314, H332 "Causes severe skin burns and eye damage. Harmful if inhaled." are not relevant, because the mixture solution is buffered to pH 4-9 (see GHS Directive 1272/2008/EC Annex I, chapter 3.2.3.1.2.).

#### Information pertaining to particular Risks to Human and possible Symptoms

Causes varying degrees of acid burns on the skin, to the eyes and to the mucous membranes and wounds which do not heal quickly depending on the concentration, temperature and the exposure time. Vapors especially which steam from hot liquids and mist can have a severe irritant effect upon the eyes and the respiratory organs.

Cause severe after oral intake, inhalation of vapors, skin contact, impairments of health or can lead to death even when only ingested in small quantities. Cause after inhalation of vapors/dust, impairments of health when ingested in small quantities. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing genetic defects. Suspected of causing cancer.

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

#### Information pertaining to particular Risks to the Environment

 Avoid contact of substance/mixture to environment.

 PBT:
 not applicable

 vPvB:
 not applicable

Possible endocrine disrupting effects data not available

data not available

## **SECTION 3: Composition/Information on Ingredients**

### 3.1 Substances or 3.2 Mixtures

6 mL RST3

Substance name: CAS No.:	<i>guanidine hydrochloride</i> 50-01-1		
Substance rating: Chemical Formula: Synonyms (de): REACH Reg. No.:	H302, Acute Tox. 4 oral, H315 CH <sub>6</sub> ClN <sub>3</sub> Guanidiniumchlorid 01-2119977063-35-0005	5, Skin Irrit. 2, H319, Eye	Irrit. 2
EC No.: Concentration:	200-002-3 24 - <36 %	Indice No.:	607-148-00-0
acc. GHS:	H302, Acute Tox. 4 oral, H31	5, Skin Irrit. 2, H319, Eye	Irrit. 2



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Printing Date: 04.04.2023	Date of Issue: 03.03.2	2023	Versio	n: 2.2.5.1
Substance CAS No.:	64-17-5 (denatured with 1% 2-butanone)			
Substance Chemical F Synonyms REACH Re EC No.: Concentrat acc. GHS:	Formula: C <sub>2</sub> H <sub>6</sub> O; C <sub>2</sub> H <sub>5</sub> OH (de): Äthylalkohol, vergällter Spiritus eg. No.: 01-2119457610-43-xxxx 200-578-6	Indice No.:	603-002-00-5	
6 mL NucleoZOL				
Substance CAS No.:	name: <i>guanidinium thiocyanate</i> 593-84-0			
	atic Chronic 3	ıte Tox. 4 derm., ⊦	l314, Skin Corr. 1C, H332, Acute To	ox. 4 inh.
Chemical F Synonyms REACH Re EC No.:	(de): Guanidiniumrhodanid	Indice No.:	615-004-00-3	
Concentrat acc. GHS:	tion: 30 - <45 % H302, Acute Tox. 4 oral, H412, Aqu	uatic Chronic 3		
Substance CAS No.:	name: <i>phenol</i> 108-95-2			
Substance H341, Mut Chemical F Synonyms REACH Re	a. 2, H373, STOT RE 2 Formula: C <sub>6</sub> H <sub>6</sub> O; C <sub>6</sub> H <sub>5</sub> -OH (de): Oxybenzol	ıte Tox. 3 derm., ⊦	l314, Skin Corr. 1B, H331, Acute To	эх. 3 inh
EC No.: Concentrat acc. GHS:	203-632-7	Indice No.: Ite Tox. 3 derm., H	604-001-00-2 I314, Skin Corr. 1B, H331, Acute To	ox. 3 inh
200 U rDNase, RNa Substance CAS No.:				
Substance Chemical F Synonyms EC No.:	rating: H334, Resp. Sens. 1 Formula: Enzyme Comm. No. 3.1.21.1, <sub>origin:</sub> (de): Deoxyribonucleodepolymerase 232-667-0	cloned		
Concentrat acc. GHS:	tion: 90 - <100 % H334, Resp. Sens. 1			
6 mL RST5				
Substance CAS No.:	name: chemicals/mixture until 1%			
Substance Concentra acc. GHS:				
<b>10 mL RST1</b> Substance CAS No.:	name: chemicals/mixture until 2% -			
Substance Concentrat		emical is not required.		



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Printing Date: 04.04.2	023	Date of Issue: 03.03.	2023		Version: 2.2.5.
7 ml F	Reaction Buffer for rD	Nase			
/ III - I	Substance name: CAS No.:	chemicals/mixture until 2% -			
	Substance rating: Concentration:	No criteria for classification or naming of ch $1 - 2\%$	emical is not required.		
	acc. GHS:	The criteria for classification are not fulfilled			
13 mL	Deta				
13 1112	Substance name: CAS No.:	<i>1,4-dioxane</i> 123-91-1			
	Substance rating: Chemical Formula: Synonyms (de): REACH Reg. No.:	H225, Flam. Liq. 2, H319, Eye Irrit C 4 H 8 O 2 Glycolethylether, Ethylendioxid 01-2119462837-26-0001	2, H335, STOT SE	3, H351, Carc. 2	
	SVHC listed: EC No.: Concentration:	listed (08/07/2021) Cand. Lst. RE 204-661-8 90 - <100 %	Indice No.:	603-024-00-5	
	acc. GHS:	H225, Flam. Liq. 2, H319, Eye Irrit	2, H335, STOT SE	3, H351, Carc. 2	
Bead 1	<b>Tubes Type A</b> Substance name: CAS No.:	Ceramic particles -			
	Substance rating: Concentration:	No criteria for classification or naming of ch 95 - <100 %	emical is not required.		
	acc. GHS:	The criteria for classification are not fulfilled			
10 mL	RST4				
	Substance name: CAS No.:	<i>guanidinium thiocyanate</i> 593-84-0			
	Substance rating: H412, Aquatic Chror		ute Tox. 4 derm., H3	314, Skin Corr. 1C, H33	2, Acute Tox. 4 inh.
	Chemical Formula: Synonyms (de): REACH Reg. No.:	C <sub>2</sub> H <sub>6</sub> N <sub>4</sub> S Guanidiniumrhodanid 01-2120735072-65-0001			
	EC No.: Concentration:	209-812-1 5 - <10 %	Indice No.:	615-004-00-3	
	acc. GHS:	The criteria for classification are not fulfilled			
	Substance name: CAS No.:	<i>ethanol</i> 64-17-5			
	Substance rating: Chemical Formula:	(denatured with 1% 2-butanone) H225, Flam. Liq. 2 C <sub>2</sub> H <sub>6</sub> O; C <sub>2</sub> H <sub>5</sub> OH			
	Synonyms (de): REACH Reg. No.: EC No.:	Äthylalkohol, vergällter Spiritus 01-2119457610-43-xxxx 200-578-6	Indice No.:	603-002-00-5	
	Concentration: acc. GHS:	35 - <55 % H226, Flam. Liq. 3		003-002-00-5	
13 mL	RNase-free H 2 O	wołac			
	Substance name: CAS No.:	water 7732-18-5			
	Substance rating: Chemical Formula:	No criteria for classification or naming of ch H $_2$ O	emical is not required.		
	REACH Reg. No.: EC No.: Concentration:	exempt, Annex IV 231-791-2 90 - <100 %			
	acc. GHS:	The criteria for classification are not fulfilled			



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#### 3.3 Remarks

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. Remove contaminated clothing. Show product package, packing insert and this material safety data sheet to the doctor. Take to a doctor, in a raised position if there are breathing difficulties.

#### 4.1.1 After SKIN Contact

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

#### 4.1.2 After EYE Contact

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

#### 4.1.3 After INHALATION of Vapors

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

#### 4.1.4 After ORAL Intake

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

#### 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. Rapid penetration and destruction of the skin. Especially in the heated form. Causes severe skin burns and eye damage.

CMR Effekte: Suspected of causing genetic defects. Suspected of causing cancer.

#### 4.3 Indication of any immediate Medical Attention and Special Treatment needed

CORROSIVE DAMAGE: After SKIN CONTACT rinse with water for a long time. Efforts to neutralise the substance can frequently make matters worse. Apply glucocorticosteroides following inflammatory reactions. After EYE CONTACT rinse immediately with plenty of water for a long time. Eyelid convulsion measures. Name the corrosive substance. Further treatment must to be carried out by an eye specialist. After INTAKE administer aluminium oxide drug suspensions. Administer a prophylaxis to counter pulmonary oedema following the INGESTION of corrosive aerosols. In the event of RESPIRATORY DISTREES ensure that the patient inhales oxygen. TOXIFICATION: Treat symptomatically. Secure the breathing, heart and circulatory function. Remove the substance quickly from the body. Mechanically induce vomiting or ensure the patient eats medicinal charcoal compressed tablets or drinks aluminium oxide drug suspensions. In order to ensure rapid passage through the colon (administer 2 tablespoons of dissolved Glauber's salt). Alleviation of pain, if necessary sedation. Shock treatment. Administer a prophylaxis to counter pulmonary oedema. Inform patient respectively further measures and the possibility of long-term damages. ---

### **SECTION 5: 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

DANGER: Highly flammable. Forms 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. Spray any vapours released with water. Retent fire water. Use only acid-resistant safety equipment.

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



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#### 5.4 Additional Information

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

### **SECTION 6: Accidental Release Measures**

#### 6.1 Personal Precautions, Protective Equipment and Emergency Procedure

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

#### 6.2 Environmental Precautions

Avoid contact of substance/mixture to environment. **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

see information in section 5.4,7,8 and 13

### **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.

#### 

Keep original product packages tightly closed during handling and storage, and store in a well-ventilated place at max. 77°F (25 °C), away or preferably separate from substances with which a hazardous reaction could take place, so that they are not immediately accessible to outside parties. Use inbreakable container for transport of glass bottles.

#### 7.3 Specific End Use(s)

Product for analytical use.

### **SECTION 8: Exposure Controls/Personal Protection**

#### 8.1 Control Parameters

#### 6 mL RST3

DINL KOIS		
Chemical: guanidine hyd	Irochloride	CAS No.: 50-01-1
DNEL:	[inh] 3.5 mg/m³	
DNEL = Derived No-Effect		
PNEC (fresh water) : PNEC = Predicted No Effe	- cted Concentration	
NIOSH:	not listed	
	age to a reference period of 8 hours, [STEL] Short-term exposure limit rel	lated to a 15-minute period
OSHA:	not listed	
Chemical ethanol		CAS No 64-17-5
Chemical: ethanol	$[derm] 3/3 mg/kg; [inh] 950 mg/m^3$	CAS No.: 64-17-5
Chemical: ethanol DNEL: DNEL = Derived No-Effect	[derm] 343 mg/kg; [inh] 950 mg/m³ Level (for workers)	CAS No.: 64-17-5
DNEL: DNEL = Derived No-Effect PNEC (fresh water):	Level (for workers) 0.96 mg/L	CAS No.: 64-17-5
DNEL: DNEL = Derived No-Effect	Level (for workers) 0.96 mg/L	CAS No.: 64-17-5
DNEL: DNEL = Derived No-Effect PNEC (fresh water) : PNEC = Predicted No Effe NIOSH:	Level (for workers) 0.96 mg/L cted Concentration [TWA] 1000 ppm / 1900 mg/m <sup>3</sup>	
DNEL: DNEL = Derived No-Effect PNEC (fresh water) : PNEC = Predicted No Effe NIOSH:	Level (for workers) 0.96 mg/L cted Concentration	



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4.04.2023 mL Nucleoz		Date of Issue:	03.03.2023	Version: 2.2.5.
	701			
nemicai	guanidinium ti	hiocvanate	CAS No.: 593-84-0	
NEL:	-	[inĥ] 1092 µg/m³		
		Level (for workers)		
NEC (fresh wa	ater) : Predicted No Effe	42.4 μg/L cted Concentration		
IIOSH:		not listed		
	ime-weighted aver		STEL] Short-term exposure limit related to a 15-minute period	
SHA:		not listed		
bomical	nhanal		CAS No : 108 05 3	
		0 0077 mg/l	CAS No.: 100-93-2	
PNEC =	Predicted No Effe	cted Concentration		
IIOSH:			; C 15.6 ppm / 60 <sub>15min</sub> mg/m³	
		15.6 ppm / 60 15 min mg/m <sup>3</sup>	STEL1 Short-term exposure limit related to a 15-minute period	
	into wolghtod uvol	•	· · · ·	
U value:		2 ppm / 7.8 mg/m <sup>3</sup>		
00 U rDNase	e, RNase free	(Iyo)		
chemical:	rDNase		CAS No.: 9003-98-9	
mL RST5				
chemical:	chemicals/mix	cture until 1%	CAS No.: -	
0 mL RST1				
hemical:	chemicals/mix	dure until 2%	CAS No.: -	
			CAS No :	
mernical.	chemicals/mix		CA3 N0	
2 ml D672				
	1 4-dioxane		CAS No 123-91-1	
NEL:		73 mg/m³	0,10,100,120,01,1	
NEC (fresh wa	ater):	10 mg/L		
	Fredicted NO Elle		Vec: $TM/A_{ab} = 1$ npm / 3.6 mg/m <sup>3</sup>	
TWA] T	ime-weighted aver	rage to a reference period of 8 hours, [S	STEL] Short-term exposure limit related to a 15-minute period	
SHA:		[skin] TWA 100 ppm / 360 mg	J/m³	
U value:		20 ppm / 73 mg/m <sup>3</sup>		
chemical:	Ceramic parti	cles	CAS No.: -	
	au anidinium t	biographic	CAS No : 502 84 0	
	guanidinium ti		CAS NO.: 593-84-0	
	Derived No-Effect			
NEC (fresh wa	ater):	42.4 μg/L		
PNEC =	Predicted No Effe			
IIOSH:	ime-weighted aver	not listed	STELLShort-term exposure limit related to a 15 minute pariod	
	and-weighted avei		or EL, chore com exposure initiated to a ro-minute period	
chemical:	ethanol		CAS No.: 64-17-5	
NEL:	Dorivod No. 55	[derm] 343 mg/kg; [inh] 950 m	ng/m³	
PNEC =	ater) - Predicted No Effe	cted Concentration		
IIOSH:		[TWA] 1000 ppm / 1900 mg/m		
[TWA] T	ime-weighted aver	age to a reference period of 8 hours, [		
OSHA:		1000 ppm / 1900 mg/m³		
	[TWA] T SHA: hemical: NEC (fresh wa PNEC = IOSH: UVALUE: NIOSH (TWA) T SHA: UVALUE: 00 U rDNasc hemical: 0 ML RST5 hemical: 0 ML RST1 hemical: 0 ML RST1 hemical: 0 ML RST1 hemical: 0 ML RST2 hemical: 0 NEL = NEC (fresh wa PNEC = IOSH: 10 VALUE: hemical: 0 ML RST4 hemical: 0 ML RST4 hemical: 0 ML RST4 hemical: 0 ML RST4 hemical: 0 NEL = NEC (fresh wa PNEC = 10 SH: 10 SHA: 0 NEL = NEC (fresh wa PNEC = 10 SH: 10 SHA: NEL: 0 NEL = NEC (fresh wa PNEC = 10 SHA: NEL = NEC (fresh wa PNEC = 10 SHA: NE = NEC (fresh wa PNEC = 10 SHA: NE = NE = NE = NE = NE = NE = NE = NE =	[TWA] Time-weighted aver SHA: hemical: <i>phenol</i> NEC (fresh water) : PNEC = Predicted No Effe IOSH: ITWA] Time-weighted aver SHA: U value: 00 U rDNase, RNase free hemical: <i>rDNase</i> <b>mL RST5</b> hemical: <i>chemicals/mix</i> 0 mL RST1 hemical: <i>chemicals/mix</i> <b>mL Reaction Buffer for rI</b> hemical: <i>chemicals/mix</i> 3 mL RST2 hemical: <i>1,4-dioxane</i> NEL: DNEL = Derived No-Effect NEC (fresh water) : PNEC = Predicted No Effe IOSH: ITWA] Time-weighted aver SHA: U value: <b>ead Tubes Type A</b> hemical: <i>Ceramic partio</i> 0 mL RST4 hemical: <i>guanidinium tu</i> NEL: DNEL = Derived No-Effect NEC (fresh water) : PNEC = Predicted No Effect IOSH: ITWA] Time-weighted aver SHA: U value: <b>ead Tubes Type A</b> hemical: <i>ceramic partio</i> 0 mL RST4 hemical: <i>guanidinium tu</i> NEL: DNEL = Derived No-Effect NEC (fresh water) : PNEC = Predicted No Effect IOSH: ITWA] Time-weighted aver SHA: hemical: <i>ethanol</i> NEL: DNEL = Derived No-Effect NEC (fresh water) : PNEC = Predicted No Effect IOSH: ITWA] Time-weighted aver SHA: hemical: <i>ethanol</i> NEL: DNEL = Derived No-Effect NEC (fresh water) : PNEC = Predicted No Effect NEC (fresh water) :	[TWA] Time-weighted average to a reference period of 8 hours, [         SHA:       not listed         hemical:       phenol         NEC (fresh water):       0.0077 mg/L         PNEC = Predicted No Effected Concentration         IOSH:       [skin]TWA 5 ppm / 19 mg/m <sup>3</sup> ITWA] Time-weighted average to a reference period of 8 hours, [         SHA:       [skin]TWA 5 ppm / 19 mg/m <sup>3</sup> U value:       2 ppm / 7.8 mg/m <sup>3</sup> D0 U rDNase, RNase free (lyo)         hemical:       chemicals/mixture until 1%         D0 ML RST1         hemical:       chemicals/mixture until 2%         ME Reaction Buffer for rDNase         hemical:       chemicals/mixture until 2%         3 mL RST2         hemical:       1,4-dioxane         NEL:       73 mg/m <sup>3</sup> DNEL = Derived No-Effect Level (for workers)         NEC (fresh water):       10 mg/L         PNEC = Predicted No Effected Concentration         IOSH:       Occupational Carcinogen List         [TWA] Time-weighted average to a reference period of 8 hours, [         SHA:       [skin] TWA 100 ppm / 360 mg         U value:       20 ppm / 73 mg/m <sup>3</sup> DNEL = Derived No-Effect Level (for workers)         NEC (fresh water):	TWA) Time-weighted average to a reference period of 8 hours. [STEL] Short-term exposure limit related to a 15-minute period         SHA:       not listed         SHA:       0.0077 mg/L         CAS No.: 108-95-2       NEC (real water):         Image: State of the state of





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ee H <sub>2</sub> O ter CAS No	o.: 7732-18-5
<b>DIS</b> extraction system in the room, floor resistant to chemicals with floor drainage an ust be maintained at the workplace.	d washing facilities. The highest
t <b>ection</b> ess of these substances for example a vapor/dust respirator, class A/AX. No ad	lditional recommendations.
/ <b>Hand protection</b> neation time >30 min - level 2), consist of PVC, Natural latex, Neopren, or Nitril. oves f.ex. with code EN 374-3 level 1.	Use for short times chemical
<b>ction</b> gles or Face Protection.	
avoid clothing damage, and to avoid contamination with these hazards.	
<b>es</b> smoking, taking snuff and storage of food in work areas and at outdoor workplac s and clothing. Rinse any clothing on which the substance has been spilled, and pap and water when stopping work and before eating, and then apply protective	d soak it in water. Wash hands
nonitoring of environmental exposure t into environment.	
t iı	-

#### Information on Basic Physical and Chemical Properties 9.1

#### 6 mL RST3

a) State of aggregation:	liquid
b) Color:	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
h) Flash Point:	26 °C
i) Autoignition Temperature:	data not available
<ol><li>j) Decomposition Temperature:</li></ol>	data not available
k) pH Value:	5-7
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:	1.0 g/cm <sup>3</sup>
q) Relative Vapor Density (air=1):	data not available
r) Particle Size:	data not available

#### 6 mL NucleoZOL

a) State of aggregation:
b) Color:
c) Odor:
d) Melting Point:
e) Boiling Point:
f) Flammability:
g) Explosive Limits (lower / upper):
h) Flash Point:
i) Autoignition Temperature:
j) Decomposition Temperature:
k) pH Value:
I) Kinematic Viscosity:
m) Soluble in Water:

liquid blue aromatic data not available data not available



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n) Partition Coefficient (o/w):	data not available	
o) Vapor Pressure (68°F):	>0.46 <sub>25°C</sub> hPa	
p) Specific Gravity:	data not available	
q) Relative Vapor Density <sub>(air=1)</sub> :	data not available	
r) Particle Size:	data not available	
200 U rDNase, RNase free (lyo)		
a) State of aggregation:	solid (lyophilized)	
b) Color: c) Odor:	white	
d) Melting Point:	odorless	
e) Boiling Point:	data not available 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	
<li>j) Decomposition Temperature:</li>	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 <sub>(o/w)</sub> : o) Vapor Pressure (68°F):	data not available	
p) Specific Gravity:	data not available	
q) Relative Vapor Density <sub>(air=1)</sub> :	data not available data not available	
r) Particle Size:	data not available	
,		
6 mL RST5		
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: i) Autoignition Temperature:	data not available	
j) Decomposition Temperature:	data not available data not available	
k) pH Value:	7-8	
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:	1.00 g/cm <sup>3</sup>	
q) Relative Vapor Density <sub>(air=1)</sub>	data not available	
r) Particle Size:	data not available	
10 mL RST1	liquid	
a) State of aggregation:	liquid colorless	
b) Color: 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:	7.5-8.5	
I) Kinematic Viscosity:	data not available	
m) Soluble in Water: n) Partition Coefficient <sub>(o/w)</sub> :	data not available	
o) Vapor Pressure (68°F):	data not available	
p) Specific Gravity:	data not available 1.02 g/cm³	
q) Relative Vapor Density <sub>(air=1)</sub> :	data not available	
-,		

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#### CHEREY-NAGEL Μ Δ

# Safety Data Sheet

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r) Particle Size:	data not available	
,		
7 mL Reaction Buffer for rDNase	15 mil d	
a) State of aggregation:	liquid colorless	
b) Color: 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:	6.5-7.5	
I) Kinematic Viscosity:	data not available	
m) Soluble in Water:	data not available	
n) Partition Coefficient <sub>(o/w)</sub> :	data not available	
o) Vapor Pressure (68°F): p) Specific Gravity:	data not available	
q) Relative Vapor Density (air=1):	1.01 g/cm³ data not available	
r) Particle Size:	data not available	
13 mL RST2	15	
a) State of aggregation: b) Color:	liquid colorless	
c) Odor:	odorless	
d) Melting Point:	12 °C	
e) Boiling Point:	101.5 °C	
f) Flammability:	data not available	
g) Explosive Limits (lower / upper):	1.9-22.5 Vol% 11 °C	
h) Flash Point: i) Autoignition Temperature:	375 °C	
j) Decomposition Temperature:	data not available	
k) pH Value:	6-8	
I) Kinematic Viscosity:	data not available	
m) Soluble in Water:	< 2 %	
n) Partition Coefficient <sub>(o/w)</sub> : o) Vapor Pressure (68°F):	data not available 41 hPa	
p) Specific Gravity:	1.01-1.03 g/cm <sup>3</sup>	
q) Relative Vapor Density <sub>(air=1)</sub> :	3.04	
r) Particle Size:	data not available	
Bead Tubes Type A		
a) State of aggregation:	solid	
b) Color:	white	
c) Odor:	odorless	
d) Melting Point: e) Boiling Point:	data not available	
f) Flammability:	data not available 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	
<ul><li>I) Kinematic Viscosity:</li><li>m) Soluble in Water:</li></ul>	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:	data not available	
q) Relative Vapor Density (air=1):	data not available	
r) Particle Size:	0.6-0.8 mm	

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Software: M2 V 6.1.1.5



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10 mL RST4		
a) State of aggregation:	liquid	
b) Color:	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	
h) Flash Point:	23 °C	
i) Autoignition Temperature:	data not available	
j) Decomposition Temperature:	data not available	
k) pH Value:	6.5 - 7.5	
<ol> <li>Kinematic Viscosity:</li> </ol>	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 <sub>(air=1)</sub> :	data not available	
r) Particle Size:	data not available	
13 mL RNase-free H 2 O		
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:	6-8	
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:	1.0 g/cm <sup>3</sup>	
q) Relative Vapor Density (air=1):	data not available	
r) Particle Size:	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** Substances are highly volatile and form flammable gas-air mixtures. Substances are highly corrosive.

### **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 react violently with organic material. Can form very reactive substances with oxidizing agents. Possibility: &H:EUH031& No further data available.

### 10.4 Conditions to avoid

No more required.



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#### **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.

6 mL RST3		-	
Chemical:	guanidine hydrochloride		CAS No.: 50-01-1
TSCA Inventory:	listed	California Prop. 65 List: not listed	CAS NO.: 30-01-1
Canada CEPA 1999		California i Top. 05 Elst. Not listed	
LD50 orl rat :	475-907 mg/kg		
LC50 ihl rat :	3181-7655 µg/m³/4⊦	1	
			antition
Chemical:	ethanol	s of health when ingested in small qua	CAS No.: 64-17-5
	listed	California Dran 65 List: not listed	CAS NO 04-17-5
TSCA Inventory: ACGIH:	1000 ppm	California Prop. 65 List: not listed	
		, skin and/or eye contact	
Exposure Routes:			var blaad raproductive ovetem
Target Organs:		ory system, central nervous system, liv	
Symptoms:		nose, neadache, drowsiness, lassilud	e (weakness, exhaustion), narcosis; cough;
	a; reproductive, teratogenic		
Canada CEPA 1999	5		
LD50 <sub>orl rat</sub> :	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/4	7	
LD50 orl mus :	3450 mg/kg		
6 mL NucleoZOL			
Chemical:	guanidinium thiocyanate		CAS No.: 593-84-0
TSCA Inventory:	listed	California Prop. 65 List: not listed	
Canada CEPA 1999	5		
LD50 orl rat :	593 mg/kg		
LC50 ihl rat :	5,319 mg/L/4H		
		s of health when ingested in small qua	
Chemical:	phenol		CAS No.: 108-95-2
TSCA Inventory:	listed		
ACGIH:	19 ppm		
Exposure Routes:		orption, ingestion, skin and/or eye con	tact
Target Organs:		ory system, liver, kidneys	
Symptoms:		throat; anorexia, weight loss; lassitud	de (weakness, exhaustion), muscle ache,
	nosis; liver, kidney damage		
LD50 <sub>orl rat</sub> :	317 mg/kg		
LC_Low orl hmn :	140 mg/kg		
LC50 ihl rat	0,51 mg/L		
LD50 <sub>orl mus</sub> :	270 mg/kg	lation of the second state	and the state of t
		alation of vapors, skin contact, impairn	nents of health or can lead to death even
when only ingested i			
		ough prolonged or repeated exposure	).
•	: Suspected of causing genet		
EU carcinogen:	Germ Cell Mutageni	city cat. 2	
	so frog (lyg)		
200 U rDNase, RNa Chemical:	rDNase		CAS No.: 9003-98-9
TSCA Inventory:	listed		070 110. 2000-20-2
TSCA Inventory.			

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.

6 mL RST5



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	Chemical:	chemic	als/mixture until 1%		CAS No.: -	
	TSCA Inventory:		all listed, <1%			
	10 mL RST1					
	Chemical:	chemic	als/mixture until 2%		CAS No.: -	
	TSCA Inventory:		all listed, <2%			
	7 mL Reaction Buffe	er for rD	Nase			
	Chemical:	chemic	als/mixture until 2%:		CAS No.: -	
	TSCA Inventory:		all listed, <2%			
	13 mL RST2					
	Chemical:	1,4-dio			CAS No.: 123-91-1	
	TSCA Inventory:		listed	California Prop. 65 List: listed c		
	Exposure Routes: Target Organs:			ption, ingestion, skin and/or eye y system, liver, kidneys; [in anim		/ tumorel
	Symptoms:			ose, throat; drowsiness, headac		
	failure; [potential occu	upationa			ine, nausea, vernang, iver a	amage, Maney
	Canada CEPA 1999:		DSL Yes			
	LD50 orl rat :		5150 mg/kg			
	LC50 ihl rat :		155 mg/L			
	Acute Effects: Cause	after inl	nalation of vapors/dus	t, impairments of health when in	gested in small quantities.	
	Carcinogenic Effects: EU carcinogen:	Suspec	Carcinogenicity cat. 2			
	EU carcinogen.		Carcinogenicity cat. 2	-		
	Bead Tubes Type A					
	Chemical:	Ceram	ic particles		CAS No.: -	
	TSCA Inventory:		not applicable			
	10 mL RST4					
	Chemical:	guanid	inium thiocyanate		CAS No.: 593-84-0	
	TSCA Inventory:		listed	California Prop. 65 List: not list	ed	
	Canada CEPA 1999: LD50 <sub>orl rat</sub> :		DSL yes 593 mg/kg			
	LC50 ihl rat :		5,319 mg/L/4H			
	Chemical:	ethano	I		CAS No.: 64-17-5	
	TSCA Inventory:	ounano	listed	California Prop. 65 List: not list		
	ACGIH:		1000 ppm	·		
	Exposure Routes:		inhalation, ingestion,	skin and/or eye contact		
	Target Organs:			y system, central nervous syster		
	Symptoms:			ose; headache, drowsiness, las	situde (weakness, exhaustio	n), narcosis; cough
	liver damage; anemia 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 <sub>ihl mus</sub> :		123,4 mg/L/4H			
	LC50 ihl rat :		115,9-133,8 mg/L/4H			
	LD50 orl mus :		3450 mg/kg			
	13 mL RNase-free H	2 <b>0</b>				
	Chemical:	water			CAS No.: 7732-18-5	
	TSCA Inventory:		listed			
	LD50 orl rat :		> 90000 mg/kg			
1.2 Ot	ner Hazards					
	Possible endocrine	disrupt	ing effects			
	data not available Other Information					
	no additional data ava	ailable				



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	5			5. 00.00.2020		V0101011. 2.2.0.11
SECI	ION 12: Ecologic	cal informa	tion			
12.1	Toxicity					
	Following information	is valid for pure	e chemicals.			
	6 mL RST3 Chemical:	guanidine hy	drochloride	(	CAS No.: 50-01-1	
	PNEC (fresh water) : PNEC = Predicted No E	Effected Concentratio	- n			
	LC50 leuciscus idus/9		1759 mg/L	"		
	LC50 fish/96h: EC50 daphnia/48h:		[4d] 690-1850; [48h] 70.2 mg/L	1758-2420 mg/L		
	EC10 pseudomonas p	outita/16h	[72h] 11.8-33.5 mg/L			
	Chemical:	ethanol		(	CAS No.: 64-17-5	
	PNEC (fresh water) : PNEC = Predicted No E	Effected Concentratio	0.96 mg/L <sup>n</sup>			
	LC50 daphnia magna/	/48h	>100 g/L			
	LC50 pimephales pror LC50 leuciscus idus/9		13.4-15.1 g/L [48h] 8.14 g/L			
	LC50 fish/96h		13 g/L			
	EC50 <sub>daphnia/48h</sub> : IC50 <sub>scenedesmus qu</sub>	adricauda/72h :	9.3-14.2 g/L [7d] 5000 mg/L			
	EC10 <sub>pseudomonas</sub> p Partition Coefficien	outita/16h	[EC5] 6500 mg/L -0,31			
		ur (o/w) -	-0,01			
	6 mL NucleoZOL	au an ialin iu an a		,	240 No - 502 04 0	
	Chemical: Harmful to aquatic	guanidinium to life with long last		act of chemical/mixture to enviro	CAS No.: 593-84-0 onment.	
	Environmental haz	ards must not be	labelled with P phrase	es until 125 mL (EU-CLP 1272/2	008 Annex I - 1.5.2).	
	PNEC (fresh water) : PNEC = Predicted No E	Effected Concentratio	_42.4 μg/L <sup>n</sup>			
	LC50 fish/96h: EC50 daphnia/48h:		[4d] 89.1 mg/L 42.4 mg/L			
	IC50 scenedesmus qu		130 mg/L			
	EC10 <sub>pseudomonas p</sub> Partition Coefficien		[10d] 200 mg/L -1,11 pH 5.1			
			.,	,	240 No - 400 05 0	
	Chemical: Avoid contact of ch	<i>phenol</i> iemical/mixture to	o environment.	(	CAS No.: 108-95-2	
	PNEC (fresh water) PNEC = Predicted No E	Effected Concentratio	0.0077 mg/L			
	LC50 daphnia magna/		EC10 16d : 0,46 mg/L	-		
	LC50 fish/96h: EC50 daphnia/48h:		8.9 mg/L 4.24-10.7/ 10.2-15.5	ma/l		
	EC50 pseudokirchner		: EC50 96h : 46.42 mg	/L		
	IC50 <sub>scenedesmus qu</sub> Partition Coefficien		EC50: 187-279 mg/L 1,47	-		
		(0/w) ·	.,			
	200 U rDNase, RN Chemical:	l <b>ase free (Iyo)</b> rDNase		(	CAS No.: 9003-98-9	
	onemical.	1DNa30			5A0 No.: 5005-50-5	
	6 mL RST5 Chemical:	ab a mia a la /mi	xture until 1%		CAS No.: -	
	Chemical.	chemicals/mi	xiure uniii 1%	(	JAS NU	
	10 mL RST1					
	Chemical:	chemicals/mi	xture until 2%	(	CAS No.: -	
	7 mL Reaction Bu	Iffer for rDNase				
	Chemical:	chemicals/mi	xture until 2%	(	CAS No.: -	
	13 mL RST2					
	Chemical:	1,4-dioxane	10 mg/l	(	CAS No.: 123-91-1	
	PNEC (fresh water) : PNEC = Predicted No E	Effected Concentratio	10 mg/L			
	Bio Toxicity:		1/2.1/2.6 [21d] 100 mg/l			
	LC50 fish/96h :		[21d] 100 mg/L			
	Management System EN ISO 13485:2016 ISO 9001:2015 Valencienner St	AGEL GmbH & Co r. 11		24 21 969-0 info@mn-net.com 62 388 55 00 sales-ch@mn-net.c	com	
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EC50 daphnia/49::       1 g/L         ICS0 genetermus quadrissudar72::       1 g/L         Partition Coefficient (ww):       -0.42         Bead Tubes Type A       Caramic particles         Chemical:       Caramic particles         Chemical:       guardinium thiocyanate         Chemical:       guardinium thiocyanate         CAS No.:-       10 mL RST4         Chemical:       guardinium thiocyanate         CAS No.:       60 mL RST4         CAS biologic       42.4 µg/L         PNEC (rene water):       42.4 µg/L         EC50 daphnia/48:       42.4 µg/L         EC50 daphnia/48:       42.4 µg/L         EC50 daphnia/48:       42.4 µg/L         EC50 sendesmus quadricaudarZn:       130 mg/L         EC50 daphnia/48:       42.4 µg/L         EC50 genetermose quadricaudarZn:       100 g/L         EC50 daphnia/48:       >100 g/L         EC50 daphnia/48:       >100 g/L         LC50 daphnia/48:       >100 g/L         EC50 gaphnia/48:       >100 g/L	REF: 74013		NucleoSpin RNA Stool (10)	Page: 18/22
ICS0 genetations quadricularizes :       [72,1] 1 g/L         Partition Coefficient (ow) :       -0.42         Escal Tubes Type A       Chemical:       carmic particles         Chemical:       guaridinium thiocyanate       CAS No.: -         10 mL RST1       Chemical:       guaridinium thiocyanate       CAS No.: 593-84-0         PNEC0       PNEC0 freshwaters:       42.4 µg/L       CAS No.: 593-84-0         PNEC0       Predicted No Effected Concentration       LCSO geneticements       Quadricularizes :         LCSO particles in the Effected Concentration       LCSO geneticements quadricularizes ::       100 mg/L         PARCE Predicted No Effected Concentration       CAS No.: 64-17-5       PNEC0 Predicted No Effected Concentration         PNEC0 Predicted No Effected Concentration       0.96 mg/L       CAS No.: 64-17-5         PNEC0 Predicted No Effected Concentration       0.96 mg/L       CAS No.: 64-17-5         PNEC0 Predicted No Effected Concentration       0.96 mg/L       CAS No.: 64-17-5         PNEC0 Predicted No Effected Concentration       0.96 mg/L       CAS No.: 7732-18-5         2.2       Porticite water       CAS No.: 7732-18-5         2.3       Bioaccumulative Potential not necessary       CAS No.: 7732-18-5         2.4       Mobility in Soil not neceessary       CAS No.: 7732-18-5 <th>Printing Da</th> <th>te: 04.04.2023</th> <th>Date of Issue: 03.03.2023</th> <th>Version: 2.2.5.11</th>	Printing Da	te: 04.04.2023	Date of Issue: 03.03.2023	Version: 2.2.5.11
Chemical:       Ceramic particles       CAS No.: -         10 mL RST4 Chemical:       guanidinium thiocyanate A2.4 µg/L       CAS No.: 593-84-0         PhEC (nethical:       42.4 µg/L         PhEC (So banylosity and the decomparation PhEC (Techic Water):       42.4 µg/L         CAS banylosity and the decomparation PhEC (Techic Water):       42.4 µg/L         CAS banylosity and the decomparation PhEC (Techic Water):       100 µg/L         Partition Coefficient (with):       1100 µg/L         PARTION Coefficient (with):       100 µg/L         CAS banylosity and the decomparation       0.96 mg/L         PhEC (Techic Water):       0.96 mg/L         PARTION Coefficient (with):       100 µg/L         LC50 daphina magna/48h:       >100 g/L         LC50 banylosity in 13.4 ± 15 µL       LC50 banylosity in 13.4 ± 15 µL         LC50 banylosity in 13.4 ± 15 µL       LC50 banylosity in 13.4 ± 12 µL         LC50 banylosity in 200 mg/L       PARTICION Coefficient (with):         Partition Coefficient (with):       IECS = 5000 mg/L         Partition Coefficient (with):       IECS = 500 mg/L         Partition Coefficient (with):       IECS = 5000 mg/L         Partition Coefficient (with):       IECS = 5000 mg/L         Partition Coefficient (with):       IECS = 5000 mg/L         Partition Coef		IC50 scenedesmus quadricauda/72h	[72ĥ] 1 g/L	
Chemical: guanidnium thicxyanate CAS No: 593-84-0 PNEC (free water): 42.4 Hg/L PNEC (free water): 42.4 Hg/L PNEC (free water): 42.4 Hg/L PNEC (free water): 100 g/L EC30 generedesmus quadricutud/72h: 130 mg/L EC30 generedesmus quadricutud/72h: 100 g/L Partition Coefficient (gw): -1,11 pt 5.1 Chemical: ethanol LC50 generedesmus quadricutud/72h: 130 g/L LC50 generedesmus quadricutud/72h: 134 f15.1 g/L LC50 generedesmus quadricutud/72h: 174 5000 mg/L EC10 peeudomos putatr/6h: 9.314.2 g/L LC50 generedesmus quadricutud/72h: 174 5000 mg/L EC10 peeudomos putatr/6h: 9.314.2 g/L EC10 peeudomos putatr/6h: 13 g/L EC10 peeudomos putatr/6h: 164 500 g/L EC50 generedesmus quadricutud/72h: 174 5000 mg/L EC10 peeudomos putatr/6h: 9.314.2 g/L EC10 peeudomos putatr/6h: 164 500 g/L EC51 generedesmus quadricutud/72h: 174 5000 mg/L EC10 peeudomos putatr/6h: 164 500 g/L EC50 generedesmus quadricutud/72h: 174 5000 mg/L EC10 peeudomos putatr/6h: 164 500 g/L EC50 generedesmus quadricutud/72h: 174 5000 mg/L EC10 peeudomos putatr/6h: 164 500 g/L EC10 peeudomos putatr/6h EC50 generedesmus quadricutud/72h: 173 500 g/L EC10 peeudomos putatr/6h EC50 generedesmus quadricutud/72h: 173 500 g/L EC10 peeudomos putatr/6h EC50 generedesmus quadricutud/72h: 163 500 g/L EC10 peeudomos putatr/6h EC50 generedesmus quadricutud/72h: 163 500 g/L EC10 peeudomos putatr/6h EC50 generedesmus quadricutud/72h: 163 500 g/L EC10 peeudomos putatr/6h EC50 generedesmus quadricutud/72h: 173 500 g/L EC10 peeudomos putatr/6h EC50 generedesmus quadricutud/72h: 173 500 g/L EC10 peeudomos putatr/6h EC50 generedesmus			ticles	CAS No.: -
LCS0 fain96h: [4d] 89.1 mg/L ECS0 daphnia44h: 42.4 mg/L 130 mg/L EC10 pseudomonas putta/16h: [10d] 200 mg/L Partition Coefficient (w): -1.11 pH 5.1 Chemical: ethanol 0.96 mg/L PNEC / Freitived No Effected Concentration PNEC / freitived No Effected Concentration LCS0 daphnia magna/48h: 9.14.5 g/L LCS0 fain96h: 13.4 - 15.1 g/L LCS0 fain96h: 13.4 - 15.1 g/L ECS0 daphnia/48h: 9.3-14.2 g/L ECS0 daphn		Chemical: guanidinium		CAS No.: 593-84-0
PNEC freqh vater): 0.96 mg/L PNEC = Predicted No Effected Concentration LCS0 daphnia magna/4h: >100 g/L LCS0 prinephates prometas/96h: 13.4-15.1 g/L LCS0 prinephates prometas/96h: 13.9/L LCS0 fini/96h: 13 g/L ECS0 daphnia/4h: 9.3-14.2 g/L ICS0 scenedesmus quadricauda/72h: [ECS] 6500 mg/L EC10 pseudomonas putta/16h: [ECS] 6500 mg/L Partition Coefficient (o/w): -0.31 13 mL RNase-free H 2 O Chemical: water CAS No.: 7732-18-5 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 Assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persiste and very bioaccumulative (vPvB) at levels of 0.1% or higher 2.6 Endocrine disrupting properties data not available 2.7 Other Adverse Effects no additional data available		LC50 fish/96h : EC50 daphnia/48h : IC50 scenedesmus quadricauda/72h : EC10 pseudomonas putita/16h :	[4d] 89.1 mg/L 42.4 mg/L 130 mg/L [10d] 200 mg/L	
LCSD pimephales promelas/96h: 13.4-15.1 g/L LCSD pimephales promelas/96h: 13.4-15.1 g/L LCSD bit/s6h: 13.g/L ECSD daphnia/48h: 9.3-14.2 g/L ICSD scenedesmus quadricauda/72h: [7d] 5000 mg/L EC10 pseudomonas putla/16h: [EC5] 6500 mg/L Partition Coefficient (orw): -0,31 13 mL RNase-free H 2 O Chemical: water CAS No.: 7732-18-5 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 Assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persiste and very bioaccumulative (VPVB) at levels of 0.1% or higher 2.6 Endocrine disrupting properties data not available 2.7 Other Adverse Effects no additional data available			0.96 mg/L	CAS No.: 64-17-5
Chemical:       water       CAS No.: 7732-18-5         2.2       Persistence and Degradability not necessary       not necessary         2.3       Bioaccumulative Potential not necessary       not necessary         2.4       Mobility in Soil not necessary       not necessary         2.5       Results of PBT and vPvB Assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persiste and very bioaccumulative (vPvB) at levels of 0.1% or higher         2.6       Endocrine disrupting properties data not available       data not available         2.7       Other Adverse Effects no additional data available       no additional data available		LC50 pimephales promelas/96h : LC50 leuciscus idus/96h : LC50 fish/96h : EC50 daphnia/48h : IC50 scenedesmus quadricauda/72h : EC10 pseudomonas putita/16h :	13.4-15.1 g/L [48h] 8.14 g/L 13 g/L 9.3-14.2 g/L [7d] 5000 mg/L [EC5] 6500 mg/L	
<ul> <li>not necessary</li> <li>2.3 Bioaccumulative Potential not necessary</li> <li>2.4 Mobility in Soil not necessary</li> <li>2.5 Results of PBT and vPvB Assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persiste and very bioaccumulative (vPvB) at levels of 0.1% or higher</li> <li>2.6 Endocrine disrupting properties data not available</li> <li>2.7 Other Adverse Effects no additional data available</li> </ul>		_		CAS No.: 7732-18-5
<ul> <li>not necessary</li> <li>2.4 Mobility in Soil not necessary</li> <li>2.5 Results of PBT and vPvB Assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persiste and very bioaccumulative (vPvB) at levels of 0.1% or higher</li> <li>2.6 Endocrine disrupting properties data not available</li> <li>2.7 Other Adverse Effects no additional data available</li> </ul>		•	y .	
<ul> <li>not necessary</li> <li>2.5 Results of PBT and vPvB Assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persiste and very bioaccumulative (vPvB) at levels of 0.1% or higher</li> <li>2.6 Endocrine disrupting properties data not available</li> <li>2.7 Other Adverse Effects no additional data available</li> </ul>				
<ul> <li>This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persiste and very bioaccumulative (vPvB) at levels of 0.1% or higher</li> <li>Endocrine disrupting properties         <ul> <li>data not available</li> </ul> </li> <li>Other Adverse Effects             no additional data available</li> </ul>		•		
data not available         2.7       Other Adverse Effects no additional data available	Т	his substance/mixture contains no cor	nponents considered to be either persistent, bioacc	umulative and toxic (PBT) or very persistent
no additional data available			ies	
ECTION 13: Disposal Considerations	12.7 0	Other Adverse Effects		
	SECTIO	N 13: Disposal Conside	rations	

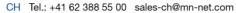
Do not collect in acidic waste. May form toxic gases. Please observe local regulations for collection and disposal of hazardous waste and contact waste disposal company, where you will obtain information on laboratory waste disposal (RCRA Code D002/D003, EU waste code number 16 05 06). Close container tightly.

#### 13.1 Waste Treatment Methods

Normally it is possible to empty small amounts (diluted!) into drains. Empty containers of corrosive reagents prior to disposal, rinse with water.

Dispose of contents/container to regulated waste treatment.





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### **SECTION 14: Transport Information**

14.1. UN/NA: 14.3. Hazard Class:	1992		Proper Shipping Name: Flacks: 6.1 14.4. Packing G	• •	c, n.o.s. (1,4-dioxane, phenol solution)
Transportation by Ro		Sub-R	ISKS. 0.1 _ 14.4. Packing G	ioup. II	
Classification code:	FT1				
Limited Quantity:	1 L		Tunnel restriction code:	E	
Excepted Quantity:	E 2		Special instructions: 274		
Air Transportation					
Limited Quantity:		LQ 0			
Excepted Quantity:		E 2			
PAX:		352		max. weight PAX:	1 L
CAO:		364		max. weight CAO:	60 L
Maritime Transport					
EmS:	F-E, S	S-D	Storage Category: B		

### 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 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 2.2.5.11 and 2.2.2.2 following changes were applied: - 3 composition data corrected - 9 substance data corrected

### 16.2 List of Hazard and Precaution Phrases

#### 16.2.1 List of relevant H Phrases

Electer relevant in the	14000
H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.



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## **Safety Data Sheet**

## SDS acc. Hazard Communication Standard

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	H341 H351 H373 H412	Suspected of causing genetic defects. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.	
16.2.2	List of relevant P F P201 P260sh P280sh P301+310 P303+361+353 P305+351+338 P405	Phrases Obtain special instructions before use. Do not breathe dust/vapors. Wear protective gloves/eye protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse sk IF IN EYES: Rinse cautiously with water for several minutes. Remove contact do. Continue rinsing. Store locked up.	
16.3	Look about employee re		
16.4	Directive 1999/92/EG Mi atmospheres Directive 2004/37/EC on work 2009, revised on 0 Regulation 790/2009/EL Regulation 453/2010/EL TRGS 907, German tecl 487/2013/EU, adaptation Regulation 1221/2015/E Regulation 776/2017/EL TRGS 905, German rule Regulation 669/2018/EL Regulation 521/2018/EL Regulation 521/2019/EL TRGS 900, German rule Regulation 521/2019/EL Regulation 878/2020/EL Regulation 643/2021/EL Regulation 643/2021/EL Regulation 849/2021/EL Regulation 849/2021/EL Regulation 849/2021/EL Regulation 849/2021/EL	s on hazardous materials, 2021 inimum requirements to improve the safety and health protection of workers at risl n the protection of workers from the risk of carcinogens or mutagens at workSUVA	.CH, limit values in the air at ATP) 2011 Regulation ATP) ATP) 5 (11th ATP) h ATP) entific progress (14th ATP) cientific progress (15th ATP) entific progress (16th ATP) entific progress (17th ATP)
16.5	revision time. This docur person using this produc appropriateness for a pa MACHEREY-NAGEL Gr without limitation any wa	mbH & Co. KG provides the information contained herein in good faith being up-to ment is intended only as a guide to the appropriate precautionary handling of the r ct. Individuals receiving the information must exercise their independent judgemen	naterial by a properly trained t in determining its sed or implied, including rmation set forth herein or the
	from use of or reliance u	upon this information. See terms and conditions at the end of our price lists for add	itional information.

#### 16.6 Legend / Abbreviations

Act:

acc: according

- ADR:
  - Convention concerning the International Carriage of Dangerous Goods by Road acute biological workplace tolerance value Cargo Aircraft Only
- BAT: CAO:
- Carc: carcinogen
- CAS: Chemical Abstracts Service



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	Classification, Labelling and Packaging regulation
CLP: 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: LC50:	Industrial Safety and Health Law (Jp) 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
onchorhynchu	
orl:	oral
OSHA:	Occupational Safety and Health Administration
00101	
PAX:	transport on passenger planes allowed
PAX: PBT:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance
PAX: PBT: pH:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value
PAX: PBT: pH: pimephales pr	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value omelas: fish, fathead minnow
PAX: PBT: pH: pimephales pr PNEC:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value omelas: fish, fathead minnow Predicted No Effected Concentration
PAX: PBT: pH: pimephales pr PNEC: PROC 15:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value omelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use'
PAX: PBT: pH: pimephales pr PNEC: PROC 15: PRTR:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value omelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp)
PAX: PBT: pH: pimephales pr PNEC: PROC 15: PRTR: PVC:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value omelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride
PAX: PBT: pH: pimephales pr PNEC: PROC 15: PRTR: PVC: quail:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value omelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail
PAX: PBT: pH: pimephales pr PNEC: PROC 15: PRTR: PVC: quail: rat:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value omelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat
PAX: PBT: pH: pimephales pr PNEC: PROC 15: PRTR: PVC: quail: rat: rbt:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value omelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit
PAX: PBT: pH: pimephales pr PNEC: PROC 15: PRTR: PVC: quail: rat: rbt: RD:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value omelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable
PAX: PBT: pH: pimephales pr PNEC: PRCC 15: PRTR: PVC: quail: rat: rbt: RD: RE:	transport on passenger planes allowed persistent, bioaccumulating, toxic substance pH value omelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated
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# Safety Data Sheet

## SDS acc. Hazard Communication Standard

REF: 740130.10	NucleoSpin RNA Stool (10)	Page: 22/22
Printing Date: 04.04.2023	Date of Issue: 03.03.2023	Version: 2.2.5.11

### 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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