# MACHEREY-NAGEI



# Safety Data Sheet

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

REF: 740895.50	NucleoSpin Dx Virus (50)	Page: 1/14
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# SECTION 1: Identification of the substance/mixture and of the company

1.1 **Product identifier** 

> REF Product name

740895.50 NucleoSpin Dx Virus (50)

REACH Registration number(s): see SECTION 3.1/3.2 or A registration number for the substance(s) does not exist because the annual tonnage does not require registration or the substance or its use is excluded from registration.

1 x 0.09-1.0 mg Carrier RNA 1 x 1.8 mL PB 1 x 25-60 mg Proteinase K (lyo) UFI: S0KV-C3D9-420Q-9T2H 1 x 35 mL RAV1 1 x 12 mL RAV3 1 x 30 mL RAW UFI: ME7V-33GF-F20U-XTDK 1 x 13 mL RE 1 x 13 mL H<sub>2</sub> O (RNase free)

#### 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. Accessory for in-vitro-diagnostic use (IVD) Uses advised against not described

#### 1.3 Details of the supplier of the safety data sheet

Manufactured by:

MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11, 52355 Düren, Germany Phone: +49 2421 969 0

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

#### 1.4 Emergency telephone number

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

You find our current versions of SDS in Internet:

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

# SECTION 2: Hazard identification

#### 2.0 Classification of the complete product according to Regulation (EC) 1272/2008



GHS02 GHS07 GHS08

Signal word

DANGER

Hazard identification	Hazard classes/categories
H226	Flam. Liq. 3
H302	Acute Tox. 4 oral
H315	Skin Irrit. 2
H319	Eye Irrit. 2
H334	Resp. Sens. 1
H412	Aquatic Chronic 3



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# **MACHEREY-NAGEL**



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2.1	Classification for the com	plete product according to Regulation (EC) 1272/2008		
	0.09-1.0 mg Carrier RNA			
	Signal word No hazard class	Do not need labelling as hazardous		
	1.8 mL PB			
	Signal word No hazard class	Do not need labelling as hazardous		
	25-60 mg Proteinase K (Iyo			
		GHS07 GHS08		

Hazard identification	Hazard classes/categories
H315	Skin Irrit. 2
H319	Eye Irrit. 2
H334	Resp. Sens. 1

35 mL RAV1

Signal word



DANGER

WARNING

Hazard identification	Hazard classes/categories
H302	Acute Tox. 4 oral
H412	Aquatic Chronic 3

### 12 mL RAV3

Signal word No hazard class

Signal word

Do not need labelling as hazardous

30 mL RAW



Signal word

$\mathbf{V}$	
GHS02	GHS07
VARNING	

Hazard identification	Hazard classes/categories	
H226	Flam. Liq. 3	
H302	Acute Tox. 4 oral	



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13 mL RE

Do not need labelling as hazardous

Signal word No hazard class

13 mL H<sub>2</sub> O (RNase free)

Do not need labelling as hazardous

Signal word No hazard class

List of H phrases: see section 16.1

## Label elements according regulation (EC) 1272/2008

According CLP directive inner packages must be only labelled with GHS symbol(s) and product identificator(s) (EU 1272/2008 Annex I - 1.5.1.2). Harmful chemicals/mixtures with signal word: WARNING and highly flammable chemicals/mixtures must not be labelled with H and P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2). This labelling exemption is NOT valid for sensibilizing substances.

### 0.09-1.0 mg Carrier RNA

Do not need labelling as hazardous

### 1.8 mL PB

2.2

Do not need labelling as hazardous

### 25-60 mg Proteinase K (Iyo)



GHS07 GHS08

Signal word: DANGER

H334

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

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

## 35 mL RAV1



Signal word: WARNING

H412 Harmful to aquatic life with long lasting effects.

12 mL RAV3

Do not need labelling as hazardous

### 30 mL RAW



Signal word: WARNING



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### 13 mL RE

Do not need labelling as hazardous

## 13 mL H<sub>2</sub> O (RNase free)

Do not need labelling as hazardous

#### 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. Kit contains small amounts of enzymes: May cause allergy or asthma symptoms or breathing difficulties if inhaled. -

## Information pertaining to particular risks to the environment

Harmful to aquatic life with long lasting effects. Avoid contact of substance/mixture to environment.

PBT:	not applicable

vPvB: not applicable

Other hazards

# **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances or 3.2 Mixtures

### 0.09-1.0 mg Carrier RNA

0.09-1.0	mg Carrier RNA			
	Chemical: carrier	RNA		CAS No.: 26763-19-9
	Classification: RTECS: KE No.: Concentration: acc. CLP (GHS):	No criteria for classification or naming of cher - KE-30341 90 - <100 % The criteria for classification are not fulfilled.	nical not required. MFCD:	00131937
1.8 mL F	РВ			
	Chemical: glycero	ble		CAS No.: 56-81-5
	Classification: Formula: Pseudonym: TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS):	No criteria for classification or naming of cher C <sub>3</sub> H <sub>8</sub> O <sub>3</sub> glycerin, 1,2,3-propanetriol listed (1,2,3-Propanetriol) 01-2119471987-18-xxxx 200-289-5 MA8050000 KE-29297 10 - $<$ 50 % The criteria for classification are not fulfilled.	nical not required. Indice No.: MFCD:	n/a 00004722
25-60 m	g Proteinase K (Iyo)			
		ase K (origin: Tritirachium album)		CAS No.: 39450-01-6
	Classification: Formula: TSCA Inventory:	H315, Skin Irrit. 2, H319, Eye Irrit. 2, Enzyme Comm. No. 3.4.21.64, <sub>origin</sub> : listed (CAS 102925-54-2)		
	EC No.: RTECS: KE No.: Concentration:	254-457-8 - not listed 90 - <100 %	Indice No.: MFCD:	647-014-00-9 00132129

H315, Skin Irrit. 2, H319, Eye Irrit. 2, H334, Resp. Sens. 1 acc. CLP (GHS):

### 35 mL RAV1



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REF: 740895.50 Printing date: 18.07.2022		NucleoSpin Dx V Date of issue: 16	( )		Page: 5/14 Version: 2.2.2
Cl	nemical: <i>guanic</i> assification: 112, Aquatic Chror	<i>linium thiocyanate</i> H302, Acute Tox. 4 oral, H312 iic 3	, Acute Tox. 4 derm., H3	CAS No.: 593-84-0 814, Skin Corr. 1B, H332,	Acute Tox. 4 inh.,
Fo Ps	seudonym: SCA Inventory:	C <sub>2</sub> H <sub>6</sub> N <sub>4</sub> S guanidine rhodanide listed			
RE	EACH Reg. No.: C No.:	01-2120735072-65-0001 209-812-1	Indice No.:	615-004-00-3	
KE	FECS: E No.: oncentration:	XL1225000 not listed 45 - <60 %	MFCD:	00013027	
	c. CLP (GHS):	H302, Acute Tox. 4 oral, H412	, Aquatic Chronic 3		
Cli Fo Ps	assification: ormula: seudonym:	♥ X-100 H302, Acute Tox. 4 oral, H315 C <sub>33</sub> H <sub>60</sub> O <sub>10,5</sub> octoxynol-9 Ustodynol-9	, Skin Irrit. 2, H318, Eye	CAS No.: 9002-93-1 Dam. 1, H410, Aquatic C	
<b>S\</b> R1	SCA Inventory: <b>/HC listed:</b> FECS: E No.:	listed listed (19/12/2012) Cand. Lst. MD0907700 KE-33568	REACH Art59(10)+Anr MFCD:	nex XIV No. 42 (-2023) 00132505	
Co	c. CLP (GHS):	KE-33508 0,25 - <2,5 % H412, Aquatic Chronic 3			
12 mL RAV		cals/mixture < 1%		CAS No.: -	
CI: TS	assification: SCA Inventory: No.:	No criteria for classification or naming all listed, <1% listed	of chemical not required.	CAS NO	
Co	oncentration: c. CLP (GHS):	0,1 - <1 % The criteria for classification are not fu	lfilled.		
30 mL RAV		line hydrochloride		CAS No.: 50-01-1	
Cli Fo Ps	assification: ormula: seudonym:	H302, Acute Tox. 4 oral, H315 $CH_6 CIN_3$ guanidinium chloride	, Skin Irrit. 2, H319, Eye		
RE	SCA Inventory: EACH Reg. No.: C No.: FECS:	listed 01-2119977063-35-0005 200-002-3 MF4300000	Indice No.: MFCD:	607-148-00-0 00013026	
KE	E No.: oncentration: c. CLP (GHS):	KE-18111 24 - <36 % H302, Acute Tox. 4 oral	WI OD.	00010020	
	nemical: ethano		2016/1867/EU)	CAS No.: 64-17-5	
Fo	assification: ormula: seudonym: SCA Inventory:	H225, Flam. Liq. 2 C <sub>2</sub> H <sub>6</sub> O; C <sub>2</sub> H <sub>5</sub> OH ethyl alcohol, methylated spirit listed			
RE EC R1	EACH Reg. Ńo.: C No.: FECS: E No.:	01-2119457610-43-xxxx 200-578-6 KQ6300000 KE-13217	Indice No.: MFCD:	603-002-00-5 00003568	
Co	oncentration: c. CLP (GHS):	35 - <55 % H226, Flam. Liq. 3			
<b>13 mL RE</b>	nemical: chemi	cals/mixture < 1%		CAS No.: -	
CI TS KE	assification: SCA Inventory: E No.:	No criteria for classification or naming all listed, <1% listed	of chemical not required.	0.000	
	oncentration: c. CLP (GHS):	0,1 - <1 % The criteria for classification are not fu	lfilled.		
	REY-NAGEL GmbH				

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CAS No.: 7732-18-5

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## 13 mL H<sub>2</sub> O (RNase free)

Chemical:waterClassification:NFormula:HTSCA Inventory:IIREACH Reg. No.:eEC No.:2RTECS:ZKE No.:KConcentration:9acc. CLP (GHS):T

No criteria for classification or naming of chemical not required. H<sub>2</sub> O listed exempt, Annex IV 231-791-2 ZC0110000 KE-35400 90 - <100 % The criteria for classification are not fulfilled.

### 3.3 Remarks

When not listed, mixtures are added with water [CAS No. 7732-18-5] to 100%.

List of H and P phrases: see section 16.1

## **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

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

### 4.1.3 After INHALATION of vapours

After inhalation of foam or vapour 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

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

### 4.3 Indication of any immediate medical attention and special treatment needed

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

# **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

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

## 5.2 Special hazards arising from the substance or mixture

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

### 5.3 Advice for firefighters

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

## 5.4 Additional information



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## SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Do not breathe vapours. Regular staff training is necessary, indicating hazards and precautions on the basis of operating instructions. Restrictions on activity must be observed.

#### 6.2 Environmental precautions

not necessary, contains only small amounts of these substances

#### 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 hazardous chemicals. Clean any contaminated equipment and floors with plenty of water. Collect small amounts of leaked liquid and flush with water into drains.

#### 6.4 Reference to other sections

# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Handling in accordance with the test instruction, that comes with the product. Use only in well-ventilated working areas. No eating, drinking or smoking in work areas. Wash hands after use. Remove contaminated clothing before entering the area where you are eating

#### 7.2 Conditions for safe storage, including any incompatibilities The original product package of MACHEREY-NAGEL allows a safe storage. Storage class (VCI): 3 3

Water hazard class (DE):

#### 7.2.1 Requirements for stock rooms and containers

Keep original product packages tightly closed during handling and storage.

#### 7.3 Specific end use(s)

Product for analytical use. Accessory for in-vitro-diagnostic use (IVD)

# **SECTION 8: Exposure controls/personal protection**

#### 8.1 **Control parameters**

Chemical: ca	rrier RNA arrier RNA		CAS No.: 26763-19-9
<b>1.8 mL PB</b> Chemical: <i>al</i>	ycerole		CAS No : 56-81-5
DNEL:		[inh] 56 mg/m³ Level (for workers)	
PNEC(fresh water) PNEC = Pre	edicted No Effect	0.885 mg/L ted Concentration	
TRGS 900 (DE):	:	200 E mg/m <sup>3</sup> E/e respirable	
Short-term expos			genic (Z) not securely excluded / (Y) certainly exclude
SUVA(CH) MAK	value	50 e* ma/m <sup>3</sup>	
25-60 mg Prote	inase K (lyo	)	
<b>25-60 mg Prote</b> Chemical: pr	<b>inase K (lyo</b> oteinase K (d	) prigin: Tritirachium album)	CAS No.: 39450-01-6
25-60 mg Prote Chemical: pr SUVA(CH) MAK	<b>inase K (lyo</b> oteinase K (d	)	CAS No.: 39450-01-6
25-60 mg Prote Chemical: pr SUVA(CH) MAK 35 mL RAV1 Chemical: gu DNEL:	inase K (lyo roteinase K (d value: vanidinium th	) origin: Tritirachium album) 0,00006 <sub>15min</sub> mg/m³	CAS No.: 39450-01-6 CAS No.: 593-84-0
25-60 mg Prote Chemical: pr SUVA(CH) MAK 35 mL RAV1 Chemical: gL DNEL: DNEL = De PNEC(fresh water)	inase K (lyo oteinase K (d value: uanidinium th prived No-Effect	) origin: Tritirachium album) 0,00006 <sub>15min</sub> mg/m³ iocyanate [inh] 1092 µg/m³	
25-60 mg Prote Chemical: pr SUVA(CH) MAK 35 mL RAV1 Chemical: gL DNEL: DNEL = De PNEC (fresh water) PNEC = Pr NIOSH:	inase K (lyo oteinase K (d value: uanidinium th erived No-Effect ; edicted No Effect	) prigin: Tritirachium album) 0,00006 <sub>15min</sub> mg/m³ iocyanate [inh] 1092 µg/m³ Level (for workers) 42.4 µg/L	CAS No.: 593-84-0



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	Chemical:	Triton® X-100	CAS No.: 9002-93-1
	12 mL RAV	3	
	Chemical:	chemicals/mixture < 1%	CAS No.: -
	<b>30 mL RAV</b> Chemical: DNEL: DNEL	<i>guanidine hydrochloride</i> [inh] 3.5 mg/m <sup>3</sup> = Derived No-Effect Level (for workers)	CAS No.: 50-01-1
	PNEC <sub>(fresh</sub> v PNEC	vater) : = Predicted No Effected Concentration	
	NIOSH:	not listed ] Time-weighted average to a reference period of 8 hours, [STEL] Shor not listed	t-term exposure limit related to a 15-minute period
	Chemical: DNEL:	ethanol [derm] 343 mg/kg; [inh] 950 mg/m³ = Derived No-Effect Level (for workers)	CAS No.: 64-17-5
	PNEC(fresh)	, ,	
	TRGS 900 (		
	Short-term e	exposure factor: 4 (II), Y resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), tera	togenic (7) not securely excluded $/(V)$ certainly excluded
	SUVA(CH) NIOSH:		
	OSHA:	[TWA] 1000 ppm / 1900 mg/m <sup>3</sup>	
	<b>13 mL RE</b> Chemical:	chemicals/mixture < 1%	CAS No.: -
	<b>13 mL H</b> <sub>2</sub> <b>O</b> Chemical:	(RNase free) water	CAS No.: 7732-18-5
8.2	Exposure co	ontrols	
	Good ventilation		nicals with floor drainage and washing facilities. The highest
3.2.1		<pre>/ protection n access of these substances for example a protection fil</pre>	ter, class A/AX. No additional recommendations.
8.2.2			onsist of PVC, natural latex, Neopren, or Nitril (f.ex. from Anse e EN 374-3 level 1.
3.2.3	<b>Eye protec</b> Yes, safety	t <b>ion</b> glasses according EN 166 with integrated side shields or	wrap-around protection.
.2.4	Skin protect	tion ded to avoid contamination with these hazards.	
.2.5	<b>Personal h</b> Eating, drin with the skir	<b>ygiene</b> king, smoking, taking snuff and storage of food in work ar	eas and at outdoor workplaces is prohibited. Avoid contact stance has been spilled, and soak it in water. Wash hands ig, and then apply protective skin cream.
8.3	0,	nd monitoring of environmental exposure	
		ase product into environment.	

Do not release product into environment.



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SECT	ION 9: Physical and che	mical properties		
9.1	Information on basic physi	cal and chemical properti	es	
	<b>0.09-1.0 mg Carrier RNA</b> Appearance: solid (lyoph.)	Colour: colourless	Odor: odorless	
	<b>1.8 mL PB</b> Appearance: liquid Specific gravity:	Colour: colourless 1.11 g/cm³	Odor: alcoholic	
	<b>25-60 mg Proteinase K (lyo)</b> Appearance: solid (lyoph.)	Colour: slightly grey	Odor: odorless	
	<b>35 mL RAV1</b> Appearance: liquid pH: Specific gravity:	Colour: colourless 7.0-7.5 1.12 g/cm³	Odor: odorless	
	<b>12 mL RAV3</b> Appearance: liquid pH: Specific gravity:	Colour: colourless 7-8 1.00 g/cm³	Odor: odorless	
	<b>30 mL RAW</b> Appearance: liquid pH: Flash point: Specific gravity:	Colour: colourless 5-5.5 23 °C 0.98 g/cm³	Odor: alcoholic	
	<b>13 mL RE</b> Appearance: liquid pH: Specific gravity:	Colour: colourless 8-9 1.0 g/cm³	Odor: odorless	
	<b>13 mL H</b> 2 <b>O (RNase free)</b> Appearance: liquid pH: Specific gravity:	Colour: colourless 6-8 1.0 g/cm³	Odor: odorless	

#### 9.2 Other information

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

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

no further data available.

10.2 **Chemical stability** No known instability.

#### 10.3 Possibility of hazardous reactions

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

#### 10.4 Conditions to avoid

Not necessary. ---

#### 10.5 Incompatible materials Avoid contact with strong acids or alkalines.



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CAS No.: 26763-19-9

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#### 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 the hazard classes according regulation (EC) 1272/2008

Following information is valid for pure substances. Quantitative data on the toxicity of this product are not available.

### 0.09-1.0 mg Carrier RNA

carrier RNA Chemical: Japan CSCL/PRTR: not listed, Japan PDSCL: not listed Japan ISHL: not listed Korea Exist.Chem.Inventory: KE-30341

## 1.8 mL PB

Chemical: g	lycerole	CAS No.: 56-81-5
TSCA Inventory:	listed (1,2,3-Propanetriol)	
Exposure Routes:	inhalation, skin and/or eye contact	
Target Organs:	Eyes, skin, respiratory system, kidneys	
Symptoms:	irritation eyes, skin, respiratory system; headache, nausea	, vomiting; kidney injury
Japan CSCL/PRTR:	not listed, Japan PDSCL: not listed	
Japan ISHL:	not listed	
Korea Exist.Chem.Inve	ntory: KE-29297	
LD50 <sub>orl rat</sub> :	12.6 g/kg	
LD50 <sub>drm rbt</sub> :	>18.7 g/kg	
TRGS 905 (DE):	R <sub>F</sub> C	

## 25-60 mg Proteinase K (lyo)

proteinase K (origin: Tritirachium album) CAS No.: 39450-01-6 Chemical: **TSCA** Inventory: listed (CAS 102925-54-2) Japan CSCL/PRTR: not listed Japan ISHL: not listed Korea Exist.Chem.Inventory: not listed 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.

## 35 mL RAV1

TSCA Inventory: Australia NICNAS: Japan CSCL/PRTR:	<i>guanidinium thiocyanate</i> listed not listed not listed, Japan PD	CAS No.: 593-84-0 California Proposition 65 List: not listed Canada CEPA 1999: DSL yes SCL: not listed
Japan ISHL:	not listed	
South Korea TCCA:	not listed	
Korea Exist.Chem.Inv	ventory: not listed	
LD50orl rat :	593 mg/kg	
LC50 <sub>drm rbt</sub> :	>2000 mg/m <sup>3</sup>	
LC50 <sub>ihl rat</sub> :	[4h] 5.319 mg/L	
LD50 <sub>ipr mus</sub> :	300 mg/kg	
	after oral intake, impairment	s of health when ingested in small quantities.
		5
Chemical:	Triton® X-100	CAS No.: 9002-93-1
TSCA Inventory:	listed	
Korea Exist.Chem.Inv	ventory: KE-33568	

## 12 mL RAV3

LD50<sub>orl rat</sub> :

LD50<sub>drm rbt</sub> :



707-1800 mg/kg

3000-12300 mg/kg

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Chemical: TSCA Inventory: Korea Exist.Chem	chemicals/mixture < 1% all listed, <1%		CAS No.: -
30 mL RAW			
LD50 <sub>orl</sub> rat : LC50 <sub>ihl rat</sub> : LD50 <sub>drm rbt</sub> :	R: not listed, Japan l not listed A: not listed n.Inventory: KE-18111 475-907 mg/kg [4h] 3181-7655 µ 2000 mg/kg		es
Chemical: TSCA Inventory: ACGIH: Exposure Routes:		California Proposition 65 List: not lis on, skin and/or eye contact	
Australia NICNAS Japan CSCL/PRT Japan ISHL: South Korea TCC Korea Exist.Cherr LD50 <sub>orl rat</sub> : LC_LoW <sub>ihl</sub> gpg : LC_LoW <sub>orl hmn</sub> : LC50 <sub>ihl</sub> mouse : LC50 <sub>ihl</sub> rat : LD50 <sub>drm</sub> rbt : LD50 <sub>oral mouse</sub> : TRGS 905 (DE):	irritation eyes, ski mia; reproductive, teratogenio : not listed R: not listed, Japan I listed ≥0,1%/≥0,1	Canada CEPA 1999: DSL y	e (weakness, exhaustion), narcosis; cough
<b>13 mL RE</b> Chemical: TSCA Inventory: Korea Exist.Chem	<i>chemicals/mixture</i> < 1% all listed, <1% a.Inventory: listed		CAS No.: -
<b>13 mL H</b> <sub>2</sub> <b>O (RNa</b> Chemical: TSCA Inventory: Korea Exist.Chem	<b>se free)</b> water listed a.Inventory: KE-35400		CAS No.: 7732-18-5
ECTION 12: Ecologi	cal information		
2.1 Toxicity Following informatio	n is valid for pure substanc	es.	
0.09-1.0 mg Carr Chemical:	-		CAS No.: 26763-19-9
<b>1.8 mL PB</b> Chemical: PNEC <sub>(fresh wa PNEC = Predicte LC50<sub>fish/96h</sub> :</sub>	ed No Effected Concentration	i mg/L D <sub>24h</sub> mg/L	CAS No.: 56-81-5
Margement System Sisson 2015 Rheinland RTFIED	Str. 11 CF Germany FF	E Tel.: +49 24 21 969-0 info@mn-net.co H Tel.: +41 62 388 55 00 sales-ch@mn-net R Tel.: +33 388 68 22 68 sales-fr@mn-net	et.com .com

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EC50 <sub>daphnia/48</sub> h :	>10 <sub>24h</sub> q/L	
IC50scenedesmus quadricauda/72h	$IC5_{7d} > 10 \text{ g/L}$	
EC10 <sub>pseudomonas putita/16h</sub>	EC5: >10 g/L	
Water hazard class (DE):	0	
Dispersion coefficient <sub>(octanol-water</sub>		
Storage class (VCI):	10	
25-60 mg Proteinase K (Iyo)		
Chemical: proteinase	K (origin: Tritirachium album)	CAS No.: 39450-01-6
Water hazard class (DE):	1	
Storage class (VCI):	13	
35 mL RAV1		
Chemical: guanidiniur	n thiocyanate	CAS No.: 593-84-0
	asting effects. Avoid contact of substance/mixture to e	
Environmental hazards must not	be labelled with P phrases until 125 mL (EU 1272/20	08 Annex I - 1.5.2).
PNEC(fresh water) : PNEC = Predicted No Effected Concentra		
LC50fish/96h :	[4d] 89.1 mg/L	
EC50 <sub>daphnia/48h</sub> :	42.4 mg/L	
IC50 <sub>scenedesmus</sub> guadricauda/72h	130 mg/L	
EC10 <sub>pseudomonas putita/16</sub> h	[10d] 200 mg/L	
Water hazard class (DE):	3	
Dispersion coefficient <sub>(octanol-water</sub>		
Storage class (VCI):	12	
Chemical: Triton® X-		CAS No.: 9002-93-1
	asting effects. Avoid contact of substance/mixture to e	
Environmental hazards must not	be labelled with P phrases until 125 mL (EU 1272/20	08 Annex I - 1.5.2).
Water hazard class (DE):	1 WGK No.: n.n.	
Storage class (VCI):	12-13	
12 mL RAV3		
Chemical: chemicals/	mixture < 1%	CAS No.: -
Water hazard class (DE):	1	
Storage class (VCI):	12-13	
30 mL RAW		
	hydrochloride	CAS No.: 50-01-1
PNEC <sub>(fresh water)</sub> : PNEC = Predicted No Effected Concentra	ation	
LC50leuciscus idus/96h :	1759 mg/L	
LC50fish/96h	[4d] 690-1850; [48h] 1758-2420 mg/L	
EC50 <sub>daphnia/48h</sub> :	70.2 mg/L	
EC10 <sub>pseudomonas putita/16h</sub> :	[72h] 11.8-33.5 mg/L	
Water hazard class (DE):	1 WGK No.: 0788	
Storage class (VCI):	12	
Chemical: ethanol		CAS No.: 64-17-5
PNEC <sub>(fresh water)</sub> :	0.96 mg/L	
PNEC = Predicted No Effected Concentra	ation	
LC50 <sub>daphnia</sub> magna/48h :	>100 mg/L	
LC50pimephales promelas/96h :	13400 - 15100 mg/L	
LC50 <sub>leuciscus</sub> idus/96h	[48h] 8140 mg/L	
LC50fish/96h :	13 g/L	
EC50daphnia/48h :	9.3-14.2 g/L	
IC50scenedesmus quadricauda/72h	[7d] 5000 mg/L	
	[EC5] 6500 mg/L	
EC10 <sub>pseudomonas</sub> putita/16h : Water bazard class (DE):	1 WGK No.: 0096	
Water hazard class (DE):		
Dispersion coefficient <sub>(octanol-water</sub>		
Storage class (VCI):	3	
13 mL RE		





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Printing date: 18.07.2022		Date of issue: 16.05.2022	Version: 2.2.2.
	Chemical: chen Water hazard class (DE): Storage class (VCI):	nicals/mixture < 1% 1 12-13	CAS No.: -
	<b>13 mL H</b> <sub>2</sub> <b>O (RNase free)</b> Chemical: wate	r	CAS No.: 7732-18-5
12.2	Persistence and degradability		
12.3	Bioaccumulative potential not necessary		
12.4	Mobility in soil not necessary		
12.5	Results of PBT and vPvB a no data available	ssessment	
12.6	Other adverse effects		

## **SECTION 13: Disposal considerations**

Do not collect in acidic waste. May form toxic gases.

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

### 13.1 Waste treatment methods

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

# **SECTION 14: Transport information**

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

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

### 14.5 Environmental hazards

none, contains only small quantities of hazardous substances, contains only small amounts of these substances

# 14.6 Special precautions for user not necessary

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

# **SECTION 15: Regulatory information**

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

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

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

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

Look for your country-specific regulations.



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#### 15.2 Chemical safety assessment

not necessary for these small amounts

## **SECTION 16: Other information**

#### 16.1 List of H and P phrases

#### 16.1.1 List of relevant H phrases

	H226	Flammable liquid and vapour.
	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.
16.1.2	List of relevant	P phrases
	P261sh	Avoid breathing dust/vapours.
	P273	Avoid release to the environment.

P342+311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

#### 16.2 Training advice

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

#### 16.3 Recommended restriction on use

Only for professional user.

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

#### 16.4 Further information

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#### 16.5 Sources of key data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS Regulation 487/2013/EU, 4th adaptation of CLP regulation to technical and scientific progress Regulation 669/2018/EU, 4th adaptation of CLP regulation to technical and scientific progress Regulation 1480/2018/EU, 4th adaptation of CLP regulation to technical and scientific progress Regulation 849/2021/EU, 4th adaptation of CLP regulation to technical and scientific progress TRGS 900, German engineering rules governing limits in air at work, updated 03/2019 SUVA .CH, Limits in air at work 2009, revised on 01.2009 TRGS 907, German engineering rules governing listing of substances and causes of sensitizations, updated November 2011 KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances) Regulation 878/2020/EU

### **Revisions/Updates**

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

2022-11 Adaptation of regulation 878/2020/EU 2017-08 Adaption of new ethanol denaturation 2016/1867/EU 2017-11 Adaption of ECHA Registration dossier



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