

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

REF: 744350.1 NucleoMag RNA (1x96) Page: 1/18

Printing date: 12.05.2021 Date of issue: 17.02.2021

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

#### 1.1 **Product identifier**

REF 744350.1

Product name NucleoMag RNA (1x96)

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.

2 x 1.5 mL B-Beads

1 x 30 mL Buffer for rDNase

1 x 60 mL MR1

1 x 80 mL MR2 1 x 80 mL MR3

1 x 250 mL MR4

1 x 30 mL MR5

3 x 80 U rDNase

1 x 107 mg TCEP

1 x 15 mL RNase-free H<sub>2</sub> O

#### 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 of the safety data sheet

## Manufactured by:

MACHEREY-NAGEL GmbH & Co. KG

Valencienner Str. 11, 52355 Düren, GERMANY

Tel.: +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 (22 languages) in Internet:

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

### **SECTION 2: Hazard identification**

#### Classification of the complete product 2.0







GHS02

**GHS07** 

Signal word **DANGER** 

Hazard identification	Hazard classes/categories
H225	Flam. Liq. 2
H226	Flam. Liq. 3
H302	Acute Tox. 4 oral
H315	Skin Irrit. 2
H319	Eye Irrit. 2
H334	Resp. Sens. 1
H336	STOT SE 3
H412	Aquatic Chronic 3
H413	Aquatic Chronic 4

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### 2.1 Classification of the substance or mixture

1.5 mL B-Beads

Do not need labelling as hazardous

Signal word

No hazard class

30 mL Buffer for rDNase

Do not need labelling as hazardous

Signal word

No hazard class

60 mL MR1



GHS07

Signal word WARNING

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

80 mL MR2





GHS02 G

Signal word DANGER

Hazard identificationHazard classes/categoriesH225Flam. Liq. 2H319Eye Irrit. 2H336STOT SE 3

80 mL MR3



GHS02

Signal word WARNING

Hazard identificationHazard classes/categoriesH226Flam. Liq. 3H412Aquatic Chronic 3H413Aquatic Chronic 4

250 mL MR4

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Signal word **DANGER** 

Hazard identification Hazard classes/categories

H225 Flam. Liq. 2

30 mL MR5

Do not need labelling as hazardous

Signal word

No hazard class

80 U rDNase



Signal word **DANGER** 

Hazard identification Hazard classes/categories

H334 Resp. Sens. 1

107 mg TCEP



Signal word WARNING

Hazard identification Hazard classes/categories

H315 Skin Irrit. 2 H319 Eye Irrit. 2

15 mL RNase-free H<sub>2</sub> O

Do not need labelling as hazardous

Signal word

No hazard class

#### 2.2 Label elements

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.

### 1.5 mL B-Beads

Do not need labelling as hazardous Signal word: -

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### 30 mL Buffer for rDNase

Do not need labelling as hazardous Signal word: -

### 60 mL MR1



Signal word: WARNING

Harmful to aquatic life with long lasting effects.

### 80 mL MR2





Signal word: DANGER

### 80 mL MR3



Signal word: WARNING

Harmful to aquatic life with long lasting effects.

# 250 mL MR4



Signal word: DANGER

Highly flammable liquid and vapour.

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed.

### **30 mL MR5**

Do not need labelling as hazardous Signal word: -

## 80 U rDNase



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Signal word: DANGER

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.

## 107 mg TCEP



Signal word: WARNING

### 15 mL RNase-free H<sub>2</sub> O

Do not need labelling as hazardous Signal word: -

#### 2.3 Other hazards

### Possible hazards from physicochemical properties

In the case of pH values are less than 5 or higher than 9 then it is irritant. Flammable properties. Vapour forms explosive mixtures with air. For quanidine 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.

not applicable PBT: vPvB: not applicable

Other hazards

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

#### 3.1 Substances or 3.2 Mixtures

### 1.5 mL B-Beads

Chemical: magnetic particles, suspended in water

No criteria for classification or naming of chemical not required.

CAS No : -

CAS No .: -

US:

TSCA Inventory: listed (CAS 1309-38-2)

Concentration: 1 - < 15 %

acc. CLP (GHS): The criteria for classification are not fulfilled.

### 30 mL Buffer for rDNase

Classification:

Chemical: chemicals/mixture < 2% Classification:

No criteria for classification or naming of chemical not required.

TSCA Inventory: all listed, <2% KE No .: listed Concentration: 1 - <2 %

acc. CLP (GHS): The criteria for classification are not fulfilled.

60 mL MR1

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> guanidinium thiocyanate CAS No.: 593-84-0 Chemical: H302, Acute Tox. 4 oral, H312, Acute Tox. 4 derm., H314, Skin Corr. 1B, H332, Acute Tox. 4 inh., Classification:

H412, Aquatic Chronic 3

Formula: C2 H6 N4 S

guanidine rhodanide Pseudonym: TSCA Inventory: listed

REACH Reg. No.: 01-2120735072-65-0001

615-004-00-3 EC No.: 209-812-1 Indice No.: RTECS: XL1225000 MFCD: 00013027

KE No .: not listed Concentration: 45 - <60 %

acc. CLP (GHS): H302, Acute Tox. 4 oral, H412, Aquatic Chronic 3

80 mL MR2

CAS No.: 67-63-0 Chemical: 2-propanol

H225, Flam. Liq. 2, H319, Eye Irrit. 2, H336, STOT SE 3 Classification:

Formula: C<sub>3</sub> H<sub>8</sub> O

Pseudonym: isopropanol, IPA, propan-2-ol TSCA Inventory: listed REACH Reg. No.: 01-2119457558-25-XXXX

200-661-7 603-117-00-0 EC No.: Indice No.: RTECS: NT8050000 MFCD: 00011674

KE No .: KE-29363 95 - <100 % Concentration:

acc. CLP (GHS): H225, Flam. Liq. 2, H319, Eye Irrit. 2, H336, STOT SE 3

80 mL MR3

Chemical. guanidinium thiocyanate CAS No.: 593-84-0

Classification: H302, Acute Tox. 4 oral, H312, Acute Tox. 4 derm., H314, Skin Corr. 1B, H332, Acute Tox. 4 inh.,

H412, Aquatic Chronic 3

Formula: C<sub>2</sub> H<sub>6</sub> N<sub>4</sub> S Pseudonym: guanidine rhodanide

TSCA Inventory: listed

REACH Reg. No.: 01-2120735072-65-0001

615-004-00-3 EC No.: 209-812-1 Indice No.: RTECS: XL1225000 MFCD: 00013027

KE No .: not listed Concentration: 15 - <30 %

acc. CLP (GHS): H413, Aquatic Chronic 4

Chemical: ethanol CAS No.: 64-17-5

(denatured with 1%IPA/1%MEK, acc.2016/1867/EU)

Classification: H225, Flam. Liq. 2

C<sub>2</sub> H<sub>6</sub> O; C<sub>2</sub> H<sub>5</sub> OH Formula:

Pseudonym: ethyl alcohol, methylated spirit

TSCA Inventory: listed

REACH Reg. No.: 01-2119457610-43-xxxx

200-578-6 603-002-00-5 EC No.: Indice No.: RTECS: KQ6300000 MFCD: 00003568

KF No . KF-13217 Concentration: 35 - < 55 % acc. CLP (GHS): H226, Flam. Liq. 3

Chemical: Triton® X-100 CAS No.: 9002-93-1 Classification: H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H318, Eye Dam. 1, H410, Aquatic Chronic 1

Formula: C<sub>33</sub> H<sub>60</sub> O<sub>10,5</sub> Pseudonym: octoxynol-9 TSCA Inventory: listed **SVHC listed:** listed

RTECS: MD0907700 MFCD: 00132505

KF-33568 KF No . 0.25 - <2.5 % Concentration:

acc. CLP (GHS): H412, Aquatic Chronic 3

250 mL MR4

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> Chemical: ethanol CAS No.: 64-17-5p (pure, not denatured)

Classification: H225, Flam. Liq. 2

Formula:  $C_2 H_6 O$ listed TSCA Inventory:

01-2119457610-43-xxxx REACH Reg. No.:

200-578-6 EC No.: Indice No: 603-002-00-5 KQ6300000 RTECS: 00003568 MFCD:

KE No.: KE-13217 Concentration: 75 - <90 % acc. CLP (GHS): H225, Flam. Liq. 2

30 mL MR5

Chemical: CAS No.: 7732-18-5 water

Classification: No criteria for classification or naming of chemical not required. Formula:

TSCA Inventory: listed REACH Reg. No.: exempt, Annex IV 231-791-2 EC No.: ZC0110000 RTECS:

KE No .: KE-35400 Concentration: 90 - <100 %

acc. CLP (GHS): The criteria for classification are not fulfilled

80 U rDNase

Chemical: rDNase CAS No.: 9003-98-9

Classification: H334, Resp. Sens. 1 Enzyme Comm. No. 3.1.21.1, origin: cloned Formula:

Pseudonym: Nuclease, deoxyribo-

TSCA Inventory: listed EC No.: 232-667-0 RTECS: RF0750000 KE-09612 KE No.: 90 - <100 % Concentration:

acc. CLP (GHS): H334, Resp. Sens. 1

107 mg TCEP

Chemical: tris-(2-carboxyethyl)phosphine hydrochloride, TCEP(•HCl) CAS No.: 51805-45-9

Classification: H315, Skin Irrit. 2, H319, Eye Irrit. 2

Formula: C<sub>9</sub> H<sub>16</sub> CIO<sub>6</sub> P Pseudonym: TČEP•HCI

MFCD: 00145469 TSCA Inventory: LVE

KE No.: not listed Concentration: 70 - <100 %

acc. CLP (GHS): H315, Skin Irrit. 2, H319, Eye Irrit. 2

Chemical: inorganic salts, declaration not necessary CAS No : -

Classification: No criteria for classification or naming of chemical not required.

Pseudonym: not hazardous TSCA Inventory: all listed listed KF No . 25 - <50 % Concentration:

acc. CLP (GHS): The criteria for classification are not fulfilled.

15 mL RNase-free H<sub>2</sub> O

Chemical: CAS No.: 7732-18-5

Classification: No criteria for classification or naming of chemical not required. Formula:  $H_2O$ 

TSCA Inventory: listed

REACH Reg. No.: exempt, Annex IV 231-791-2 EC No.: RTECS: ZC0110000 KE No .: KE-35400 90 - <100 % Concentration:

acc. CLP (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 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 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 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

After SKIN CONTACT rinse with water for a long time. Apply glucocorticosteroides following inflammatory reactions. 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. DANGER: Highly flammable (GHS regulation). Forms explosive vapour-air mixtures. Formation of hazardous and caustic vapour-air mixtures possible. ---

## 5.3 Advice for firefighters

No, for listed product. The substance/mixture is highly flammable. Product package burns like paper or plastic. Cool any undamaged containers in water, and remove from the danger zone if possible. Heating will lead to an increase in pressure, and a danger of bursting.

## 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. Wear suitable protective gloves (see 8.2.2). Wear eye protection. Keep product away from sources of ignition - No smoking. 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.

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6.4 Reference to other sections

# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

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

#### 7.2 Conditions for safe storage, including any incompatibilities

The original product package of MACHEREY-NAGEL allows a safe storage. Classification into storage class A.

Storage class (VCI): 3 Water hazard class (DE):

Requirements for stock rooms and containers 7.2.1

Keep original product packages tightly closed during handling and storage, and store in a well-ventilated place at max. 25 °C, away or preferably separate from substances with which a hazardous reaction could take place. Use inbreakable container for transport

7.3 Specific end use(s)

Product for analytical use.

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

#### 8.1 **Control parameters**

1.5 mL B-Beads

CAS No · magnetic particles, suspended in water Chemical:

30 ml Buffer for rDNase

Chemical: chemicals/mixture < 2% CAS No.: -

60 mL MR1

Chemical: guanidinium thiocyanate CAS No.: 593-84-0

[inh] 1092 µg/m<sup>3</sup> DNEL = Derived No-Effect Level (for workers) 42.4 µg/L

not listed [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA:

80 mL MR2

Chemical: CAS No.: 67-63-0 2-propanol

[inh] 500 mg/m³ Level (for workers) DNEL: DNEL = Derived No-Effect PNEC<sub>(fresh water)</sub>: 140.9 mg/L PNEC = Predicted No Effected Concentration

TRGS 900 (DE): 200 ppm / 500 mg/m<sup>3</sup>

Short-term exposure factor: 2 (II), Y

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 200 ppm / 500 mg/m<sup>3</sup> TRGS 903 (DE): [Aceton B/b, U/b] 25 mg/L

B blood, U urine, a no limitation, b end of exposition or shift

[TWA] 400 ppm / 980 mg/m<sup>3</sup> NIOSH:

NIOSH STEL: 500 ppm / 1225 mg/m³ [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: [TWA] 400 ppm / 980 mg/m<sup>3</sup>

80 mL MR3

Chemical: guanidinium thiocyanate CAS No.: 593-84-0

DNFI · [inh] 1092 µg/m<sup>3</sup> 42.4 µg/L PNEC(fresh water): PNEC = Predicted No Effected Concentration

NIOSH: [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

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> OSHA: not listed

Chemical: ethanol CAS No.: 64-17-5

[derm] 343 mg/kg; [inh] 950 mg/m<sup>3</sup> DNFL = Derived No-Effect Level (for workers)

PNEC (fresh water): U.90 IIIg/L PNEC = Predicted No Effected Concentration 0.96 mg/L

TRGS 900 (DE): 200 mL/m3 / 380 mg/m3

Short-term exposure factor: 4 (II), Y

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 500 ppm / 960 mg/m<sup>3</sup>

NIOSH:

E [TWA] 1000 ppm / 1900 mg/m³ [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: [TWA] 1000 ppm / 1900 mg/m<sup>3</sup>

CAS No : 9002-93-1 Chemical: Triton® X-100

250 ml MR4

Chemical: ethanol CAS No.: 64-17-5p

DNEL [derm] 343 mg/kg; [inh] 950 mg/m<sup>3</sup>

DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): U.96 mg/L PNEC = Predicted No Effected Concentration

200 ppm / 380 mg/m<sup>3</sup> TRGS 900 (DE):

Short-term exposure factor: 4 (II), Y

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 500 ppm / 960 mg/m<sup>3</sup>

NIOSH

: [TWA] 1000 ppm / 1900 mg/m³ [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: [TWA] 1000 ppm / 1900 mg/m<sup>3</sup>

30 mL MR5

Chemical: water CAS No.: 7732-18-5

80 U rDNase

Chemical: rDNase CAS No.: 9003-98-9

107 mg TCEP

CAS No.: 51805-45-9 Chemical: tris-(2-carboxyethyl)phosphine hydrochloride, TCEP(•HCl)

Chemical: inorganic salts, declaration not necessary CAS No .: -

15 mL RNase-free H<sub>2</sub> O

Chemical: water CAS No.: 7732-18-5

#### 8.2 **Exposure controls**

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

8.2.1 Respiratory protection

Use for open access of these substances for example a protection filter, class A/AX. No additional recommendations.

8.2.2

Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansell or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.

8.2.3 Eye protection

Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection.

8.2.4 Skin protection

Recommended to avoid contamination with these hazards.

8.2.5 Personal hygiene

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> Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.

## **SECTION 9: Physical and chemical properties**

#### Information on basic physical and chemical properties 9.1

1.5 mL B-Beads

Appearance: liquid Colour: colourless Odor: odorless

30 mL Buffer for rDNase

Appearance: liquid Colour: colourless Odor: odorless

6.5-7.5 Specific gravity: 1.01 g/cm<sup>3</sup>

60 mL MR1

Appearance: liquid Colour: colourless Odor: odorless

pH: 6.5-7.5 Specific gravity: 1.13 g/cm<sup>3</sup>

80 mL MR2

Appearance: liquid Colour: colourless Odor: alcoholic

-90 °C Melting point: 82 °C Boiling point: Flash point: 12 °C Explosion limits: 2-12.7 Vol% Vapour pressure (20°C): 43 hPa Vapour density(air=1): 2.08 0.785 g/cm<sup>3</sup> Specific gravity: Solubility in water: 0-100 % Flashing temperature: 425 °C Volatiles by volume: 106 g/m<sup>3</sup>

80 mL MR3

Appearance: liquid Colour: colourless Odor: alcoholic

pH: 5-5.5 26 °C Flash point:

250 mL MR4

Appearance: liquid Colour: colourless Odor: alcoholic

Odor limit: 19-93 mg/m<sup>3</sup>

pH: Melting point: -114 °C 78 °C Boiling point:

Flash point: 14 °C **Explosion limits:** 3.2-15 Vol% Vapour pressure (20°C): 59 hPa Vapour density<sub>(air=1)</sub>: 1.59 Specific gravity: 0.82 g/cm<sup>3</sup> 0-100 %

Solubility in water: Flashing temperature: 425 Volatiles by volume: 112 g/m<sup>3</sup>

30 mL MR5

Appearance: liquid Colour: colourless Odor: odorless

6-8 Specific gravity: 1.0 g/cm<sup>3</sup>

80 U rDNase

Appearance: solid (lyoph.) Colour: white Odor: odorless

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107 mg TCEP

Appearance: solid (lyoph.) Colour: colourless Odor: penetrative

oH: 6.5-7

15 mL RNase-free H<sub>2</sub> O

Appearance: liquid Colour: colourless Odor: odorless

pH: 6-8 Specific gravity: 1.0 g/cm³

### 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** 

Substances are very volantile and form flammable vapour-air mixtures. ---

## **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

But avoid reactions with oxidizing agents. 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. But can form explosive gases/vapour with air. Use only in a well-ventilated working areas. ---

## 10.5 Incompatible materials

Avoid contact with strong acids or alkalines. Avoid storage with oxidising substances.

# 10.6 Hazardous decomposition products

In the original package all parts/all reagents are safety and separated stored. Decompositions are not observed during the expiration period under recommended conditions.

## **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

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

## 1.5 mL B-Beads

Chemical: magnetic particles, suspended in water CAS No.: -

TSCA Inventory: listed (CAS 1309-38-2)

## 30 mL Buffer for rDNase

Chemical: chemicals/mixture < 2% CAS No.: -

TSCA Inventory: all listed, <2% Korea Exist.Chem.Inventory: listed

## 60 mL MR1

Chemical: guanidinium thiocyanate CAS No.: 593-84-0

TSCA Inventory: listed California Proposition 65 List: not listed Australia NICNAS: Canada CEPA 1999: DSL yes

Japan CSCL/PRTR: not listed, Japan PDSCL: not listed

 Japan ISHL:
 not listed

 South Korea TCCA:
 not listed

 Korea Exist.Chem.Inventory:
 not listed

 LD50<sub>orl rat</sub>:
 593 mg/kg

 LC50<sub>drm rbt</sub>:
 >2000 mg/m³

 LC50<sub>ihl rat</sub>:
 [4h] 5.319 mg/L

 LD50<sub>ipr mus</sub>:
 300 mg/kg

Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.

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80 mL MR2

Chemical: CAS No.: 67-63-0 2-propanol

TSCA Inventory: listed California Proposition 65 List: not listed

ACGIH: 1230 ppm

Exposure Routes: inhalation, ingestion, skin and/or eye contact

Eyes, skin, respiratory system **Target Organs:** 

irritation eyes, nose, throat; drowsiness, dizziness, headache; dry cracking skin; in animals: narcosis Symptoms:

Australia NICNAS: Canada CEPA 1999: DSL yes

PAC yes, Japan PDSCL: -Japan CSCL/PRTR:

Japan ISHL: listed ≥1,0%/≥0,1%, Article 57-2 (SDS required)

South Korea TCCA:

Korea Exist.Chem.Inventory: KE-29363 LD50<sub>orl rat</sub>: 5045 mg/kg LC\_Loworl hmn: 3570 mg/kg LC50<sub>ihl rat</sub>: 16<sub>4h</sub> g/m<sup>3</sup> LD50<sub>drm rbt</sub>: 12.8 g/kg

TRGS 905 (DE): R<sub>F</sub> C

80 mL MR3

Chemical: guanidinium thiocyanate CAS No.: 593-84-0

California Proposition 65 List: not listed TSCA Inventory: listed Australia NICNAS: not listed Canada CEPA 1999: DSL yes

Japan CSCL/PRTR: not listed, Japan PDSCL: not listed

Japan ISHL: not listed South Korea TCCA: not listed Korea Exist.Chem.Inventory: not listed LD50<sub>orl rat</sub>: 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

ethanol CAS No.: 64-17-5 Chemical:

TSCA Inventory: California Proposition 65 List: not listed listed

ACGIH: 1000 ppm

Exposure Routes: inhalation, ingestion, skin and/or eye contact

Target Organs: Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system

irritation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; cough; Symptoms:

liver damage; anemia; reproductive, teratogenic

Australia NICNAS: Canada CEPA 1999: DSL yes not listed

not listed, Japan PDSCL: not listed Japan CSCL/PRTR:

Japan ISHL: listed ≥0,1%/≥0,1%, Article 57-2 (SDS required) South Korea TCCA: not listed

K5, M5, R<sub>F</sub> C

Korea Exist.Chem.Inventory: KE-13217 LD50<sub>orl rat</sub>: 6200 mg/kg LC\_Lowihl apg: 21.9 g/m<sup>3</sup> LC\_Loworl hmn: 1400 mg/kg LC50<sub>ihl mouse</sub>: [4h] 39 g/m<sup>3</sup> LC50<sub>ihl rat</sub>: [10h] 20 g/m<sup>3</sup> 20 000 mg/kg LD50<sub>drm rbt</sub>: LD50<sub>oral mouse</sub>: 3450 mg/kg

TRGS 905 (DE):

Triton® X-100 CAS No.: 9002-93-1 Chemical:

TSCA Inventory: listed Korea Exist.Chem.Inventory: KE-33568 LD50<sub>orl rat</sub>: 707-1800 mg/kg LD50<sub>drm rbt</sub>: 3000-12300 mg/kg

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250 mL MR4

Chemical: ethanol CAS No : 64-17-5p

TSCA Inventory: listed California Proposition 65 List: not listed

ACGIH: 1000 ppm

**Exposure Routes:** inhalation, ingestion, skin and/or eye contact

Target Organs: Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system

Symptoms: irritation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; cough;

liver damage; anemia; reproductive, teratogenic Australia NICNAS: not listed Canada CEPA 1999: DSL yes

not listed, Japan PDSCL: not listed Japan CSCL/PRTR:

Japan ISHL: listed ≥0,1%/≥0,1%, Article 57-2 (SDS required) South Korea TCCA:

not listed Korea Exist.Chem.Inventory: KE-13217 6200 mg/kg LD50<sub>orl rat</sub>: LC\_Lowihl gpg: 21.9 g/m<sup>3</sup> LC\_Loworl hmn: 1400 mg/kg [4h] 39 g/m<sup>3</sup> LC50<sub>ihl mouse</sub>: LC50<sub>ihl rat</sub>: [4h] 8 / [10h] 20 g/m<sup>3</sup> LD50<sub>drm rbt</sub>: 20 000 mg/kg LD50<sub>oral mouse</sub>: 3450 mg/kg

TRGS 905 (DE): K5, M5, R<sub>F</sub> C

30 mL MR5

Chemical: CAS No.: 7732-18-5 water

TSCA Inventory: listed Korea Exist.Chem.Inventory: KE-35400

80 U rDNase

Chemical: rDNase CAS No.: 9003-98-9

TSCA Inventory: listed Japan CSCL/PRTR: not listed Japan ISHL: not listed Korea Exist.Chem.Inventory: KE-09612

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.

107 mg TCEP

Chemical: tris-(2-carboxyethyl)phosphine hydrochloride, TCEP(•HCl) CAS No.: 51805-45-9

TSCA Inventory: Korea Exist.Chem.Inventory: not listed LD50<sub>orl rat</sub>: 3500 mg/kg LD50intraperitonaeal rat: 1024 mg/kg LD50<sub>scu rat</sub>: >3000 mg/kg

Chemical: inorganic salts, declaration not necessary CAS No .: -

TSCA Inventory: all listed Korea Exist.Chem.Inventory: listed

15 mL RNase-free H<sub>2</sub> O

Chemical: CAS No.: 7732-18-5

TSCA Inventory: listed Korea Exist.Chem.Inventory: KE-35400

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## **SECTION 12: Ecological information**

#### 12.1 **Toxicity**

Following information is valid for pure substances.

1.5 mL B-Beads

CAS No .: -Chemical: magnetic particles, suspended in water

Storage class (VCI):

30 mL Buffer for rDNase

chemicals/mixture < 2% CAS No .: -Chemical:

Water hazard class (DE): Storage class (VCI): 12-13

60 mL MR1

Chemical: guanidinium thiocyanate CAS No.: 593-84-0

Harmful to aquatic life with long lasting effects. Avoid contact of substance/mixture to environment. Environmental hazards must not be labelled with P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).

PNEC (fresh water):
PNEC = Predicted No Effected Concentration 42.4 µg/L

LC50<sub>fish/96h</sub>: [4d] 89.1 mg/L EC50<sub>daphnia/48h</sub>: 42.4 mg/L 130 mg/L IC50<sub>scenedesmus</sub> quadricauda/72h [10d] 200 mg/L EC10<sub>pseudomonas</sub> putita/16h

Water hazard class (DE):

Dispersion coefficient(octanol-water): [pH 5.1] -1.11

Storage class (VCI):

80 mL MR2

CAS No.: 67-63-0 Chemical: 2-propanol

PNEC (fresh water):
PNEC = Predicted No Effected Concentration 140.9 mg/L

 $LC50_{fish/96h}$ : 1400 mg/L EC50<sub>daphnia/48h</sub>: 13.3 g/L >1000 mg/L IC50<sub>scenedesmus</sub> quadricauda/72h EC5: 1050 mg/L EC10<sub>pseudomonas putita/16h</sub>: Water hazard class (DE): WGK No.: 0135

 $Dispersion\ coefficient \ (octanol-water):$ 0.05

Storage class (VCI):

80 mL MR3

Chemical: guanidinium thiocyanate CAS No.: 593-84-0

May cause long lasting harmful effects to aquatic life. Avoid contact of substance/mixture to environment. Environmental hazards must not be labelled with P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).

PNEC<sub>(fresh water)</sub>:
PNEC = Predicted No Effected Concentration 42.4 µg/L

LC50<sub>fish/96h</sub>: [4d] 89.1 mg/L EC50<sub>daphnia/48h</sub>: 42.4 mg/L IC50<sub>scenedesmus</sub> quadricauda/72h 130 mg/L [10d] 200 mg/L EC10pseudomonas putita/16h Water hazard class (DE):

Dispersion coefficient<sub>(octanol-water)</sub>: [pH 5.1] -1.11

Storage class (VCI): 12

Chemical: ethanol CAS No.: 64-17-5

PNEC (fresh water):
PNEC = Predicted No Effected Concentration 0.96 mg/L

LC50<sub>daphnia</sub> magna/48h: >100 mg/L LC50pimephales promelas/96h: 13400 - 15100 mg/L

LC50 leuciscus idus/96h: [48h] 8140 mg/L LC50<sub>fish/96h</sub>: 13 g/L EC50<sub>daphnia/48h</sub>: 9.3-14.2 g/L

IC50<sub>scenedesmus</sub> quadricauda/72h: [7d] 5000 mg/L [EC5] 6500 mg/L EC10<sub>pseudomonas putita/16h</sub>: Water hazard class (DE): WGK No.: 0096

Dispersion coefficient<sub>(octanol-water)</sub> -0.31Storage class (VCI):

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> Triton® X-100 CAS No.: 9002-93-1 Chemical:

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

Environmental hazards must not be labelled with P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).

Water hazard class (DE): WGK No.: n.n.

Storage class (VCI):

250 mL MR4

Chemical: ethanol CAS No.: 64-17-5p

PNEC(fresh water):
PNEC = Predicted No Effected Concentration 0.96 mg/L

LC50<sub>daphnia magna/48h</sub>: >100 mg/L

LC50pimephales promelas/96h: 13400 - 15100 mg/L [48h] 8140 mg/L LC50leuciscus idus/96h LC50<sub>fish/96h</sub>: 13 g/L 9.3-14.2 g/L EC50<sub>daphnia/48h</sub>:

[7d] 5000 mg/L IC50<sub>scenedesmus</sub> quadricauda/72h: EC10<sub>pseudomonas putita/16h</sub> [EC5] 6500 mg/L Water hazard class (DE): WGK No.: 0096

Dispersion coefficient<sub>(octanol-water)</sub>: -0.31Storage class (VCI):

30 mL MR5

CAS No.: 7732-18-5 Chemical: water

80 U rDNase

Chemical: rDNase CAS No.: 9003-98-9

Water hazard class (DE): WGK No.: n.n.

13 Storage class (VCI):

107 mg TCEP

Chemical: tris-(2-carboxyethyl)phosphine hydrochloride, TCEP(•HCI) CAS No.: 51805-45-9

Storage class (VCI): 12-13

Chemical: inorganic salts, declaration not necessary CAS No .: -

Water hazard class (DE):

Storage class (VCI): 12-13

15 mL RNase-free H<sub>2</sub> O

Chemical: CAS No.: 7732-18-5 water

12.2 Persistence and degradability

not necessary

12.3 **Bioaccumulative potential** 

not necessary

12.4 Mobility in soil

not necessary

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

no additional data available

**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.

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## **SECTION 14: Transport information**

14.1 UN number: 1993 14.2 UN proper shipping name: Flammable liquid, n.o.s. (ethanol, 2-propanol mixture)

14.3 Class: 14.4 Packing group:

Road transport

Classification code:

Limited Quantity: Tunnel restriction code: **Excepted Quantity:** Special instructions: 640C E 2 Air transport

PAX-

353 max. weight PAX: 5 I CAO: 364 max. weight CAO: 60 L

Maritime transport

F-E, S-E EmS: Storage category: В

#### 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**

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

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.

#### 15.2 Chemical safety assessment

not necessary for these small amounts ---

### SECTION 16: Other information

#### List of H and P phrases 16.1

#### 16.1.1 List of relevant H phrases

Highly flammable liquid and vapour. H225 Flammable liquid and vapour. H226 Harmful if swallowed. H302 H315 Causes skin irritation. H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause drowsiness or dizziness. H336

Harmful to aquatic life with long lasting effects. H412 May cause long lasting harmful effects to aquatic life. H413

#### 16 1 2 List of relevant P phrases

Keep away from heat/sparks/open flames/hot surfaces. No smoking. P210

P233 Keep container tightly closed. P260D Do not breathe vapours. P261sh Avoid breathing dust/vapours.

Wash with water thoroughly after handling. P264W P273 Avoid release to the environment P280sh Wear protective gloves/eye protection.

P301+312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P330 Rinse mouth

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

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### 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

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

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## 16.5 Sources of key data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS

Regulation 487/2013/EU, 4th adaptation of CLP regulation to technical and scientific progress Regulation 669/2018/EU, 4th adaptation of CLP regulation to technical and scientific progress Regulation 1480/2018/EU, 4th adaptation of CLP regulation to technical and scientific progress

TRGS 900, German engineering rules governing limits in air at work, updated 03/2019

SUVA .CH, Limits in air at work 2009, revised on 01.2009

TRGS 907, German engineering rules governing listing of substances and causes of sensitizations, updated November 2011 Directive 1999/92/EC Minimum requirements for improving the safety and health protection of workers at risk from potentially explosive atmospheres

KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

## Revisions/Updates

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

2017-08 Adaption of new ethanol denaturation 2016/1867/EU

2017-11 Adaption of ECHA Registration dossier

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