

Safety Data Sheet

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

REF: 740903.10 NucleoSpin RNA Clean-up XS (10) Page: 1/8

Printing date: 12.05.2021 Date of issue: 04.02.2021

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

1.1 **Product identifier**

REF 740903.10

Product name NucleoSpin RNA Clean-up XS (10)

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 6 mL RA3 1 x 5 mL RCU

1 x 13 mL RNase-free H₂ 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. DE: Gemeinsames Giftinformationszentrum (GGIZ) 99089 Erfurt tel. +49 361 730 730

You find our current versions of SDS (22 languages) in Internet: http://www.mn-net.com/SDS

SECTION 2: Hazard identification

2.0 Classification of the complete product



GHS07

Signal word WARNING

Hazard identification Hazard classes/categories

H302 Acute Tox. 4 oral H412 Aquatic Chronic 3

2.1 Classification of the substance or mixture

6 mL RA3

Do not need labelling as hazardous

Signal word

No hazard class

5 mL RCU

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DE/international: CH: FR:

Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: +1 484 821 0984 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 +1 484 821 1272 Fax: Version: M V 4.12.0 E-mail: info@mn-net.com E-mail: sales-ch@mn-net.com E-mail: sales-fr@mn-net.com E-mail: sales-us@mn-net.com



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Signal word WARNING

Hazard identification Hazard classes/categories

H302 Acute Tox. 4 oral H412 Aquatic Chronic 3

13 mL RNase-free H₂ 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 must not be labelled with H and P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).

6 mL RA3

Do not need labelling as hazardous Signal word: -

5 mL RCU



Signal word: WARNING

Harmful to aquatic life with long lasting effects.

13 mL RNase-free H₂ O

Do not need labelling as hazardous Signal word: -

2.3 Other hazards

Possible hazards from physicochemical properties

For guanidine thiocyanate CAS 593-84-0: The properties H314, H332 "Causes severe skin burns and eye damage. Harmful if inhaled." are not relevant, because the mixture solution is buffered to pH 4-9 (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. -

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 vPvB: not applicable

Other hazards

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DE/international: CH: FR:

Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: +1 484 821 0984 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 Fax: +1 484 821 1272 Version: M V 4.12.0 E-mail: info@mn-net.com E-mail: sales-ch@mn-net.com E-mail: sales-fr@mn-net.com E-mail: sales-us@mn-net.com



CAS No : -

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SECTION 3: Composition/information on ingredients

3.1 Substances or 3.2 Mixtures

6 mL RA3

Chemical: chemicals/mixture < 1%

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

TSCA Inventory: all listed, <1% KE No.: listed 0.1 - <1 % Concentration:

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

5 mL RCU

guanidinium thiocyanate Chemical: 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:

 $C_2\,H_6\,N_4\,S$ guanidine rhodanide Pseudonym:

listed

TSCA Inventory:

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

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

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

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

13 mL RNase-free H₂ O

CAS No.: 7732-18-5 Chemical:

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

Formula: H_2O TSCA Inventory: listed

REACH Reg. No.: exempt, Annex IV EC No.: 231-791-2 ZC0110000 RTECS: KE No.: KE-35400

90 - <100 % Concentration:

acc. CLP (GHS): 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.

4.1.1 **After SKIN Contact**

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

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. ---

4.1.4

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

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DE/international: CH: FR:

Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: +1 484 821 0984 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 +1 484 821 1272 Fax:

Version: M V 4.12.0 E-mail: info@mn-net.com

E-mail: sales-ch@mn-net.com

E-mail: sales-fr@mn-net.com

E-mail: sales-us@mn-net.com

US:

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4.3 Indication of any immediate medical attention and special treatment needed

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

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Regular staff training is necessary.

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. 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.

7.2 Conditions for safe storage, including any incompatibilities

The original product package of MACHEREY-NAGEL allows a safe storage. Storage class (VCI): 12 Water hazard class (DE) 3

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.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

6 mL RA3

Chemical: chemicals/mixture < 1% CAS No .: -

5 mL RCU

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

[inh] 1092 µg/m³ Derived No-Effect Level (for workers) PNEC (fresh water) : 42.4 µg/L PNEC = Predicted No Effected Concentration

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

OSHA: not listed

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DE/international: CH: FR:

Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: +1 484 821 0984 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 Fax: +1 484 821 1272 E-mail: sales-ch@mn-net.com E-mail: sales-us@mn-net.com

Version: M V 4.12.0 E-mail: info@mn-net.com

E-mail: sales-fr@mn-net.com

US:

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13 mL RNase-free H2 O

CAS No : 7732-18-5 Chemical: water

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

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

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

Skin protection 8.2.4

Personal hygiene 8.2.5

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

9.1 Information on basic physical and chemical properties

6 mL RA3

Appearance: liquid Colour: colourless Odor: odorless

pH: 7-8 Specific gravity: 1.00 g/cm³

5 mL RCU

Odor: odorless Appearance: liquid Colour: colourless

pH: 6.5 - 7.5Specific gravity: 1.13 g/cm³

13 mL RNase-free H₂ O

Appearance: liquid Colour: colourless Odor: odorless

pH: 6-8

1.0 g/cm³ Specific gravity:

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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DE/international: CH: FR:

Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: +1 484 821 0984 Fax: +49 24 21 969-199 +41 62 388 55 05 Fax: +33 388 51 76 88 +1 484 821 1272 Fax: E-mail: sales-fr@mn-net.com E-mail: sales-us@mn-net.com

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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 toxicological effects

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

6 mL RA3

Chemical: chemicals/mixture < 1% CAS No .: -

TSCA Inventory: all listed. <1%

Korea Exist.Chem.Inventory: listed

5 mL RCU

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

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

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

Japan ISHL: not listed South Korea TCCA: not listed Korea Exist.Chem.Inventory: not listed LD50_{orl rat}: 593 mg/kg LC50_{drm rbt}: >2000 mg/m³

LC50_{ihl rat}: [4h] 5.319 mg/L LD50_{ipr mus} 300 mg/kg

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

13 mL RNase-free H₂ O

Chemical: CAS No.: 7732-18-5

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

SECTION 12: Ecological information

12.1

Following information is valid for pure substances.

6 mL RA3

chemicals/mixture < 1% CAS No .: -Chemical:

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

5 mL RCU

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

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).

42.4 µg/L

PNEC_(fresh water):
PNEC = Predicted No Effected Concentration

 $LC50_{fish/96h}$: [4d] 89.1 mg/L EC50daphnia/48h: 42.4 mg/L 130 mg/L IC50scenedesmus quadricauda/72h: [10d] 200 mg/L EC10_{pseudomonas putita/16h}

Water hazard class (DE):

Dispersion coefficient_(octanol-water) [pH 5.1] -1.11

Storage class (VCI):

13 mL RNase-free H₂ O

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

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DE/international: CH: FR:

Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: +1 484 821 0984 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 +1 484 821 1272 E-mail: sales-us@mn-net.com

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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.

SECTION 14: Transport information

14.1 - 14.4: No dangerous goods according the transport regulations

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.

15.2 Chemical safety assessment

not necessary for these small amounts ---

SECTION 16: Other information

16.1 List of H and P phrases

List of relevant H phrases 16.1.1

H302 Harmful if swallowed.

H412 Harmful to aquatic life with long lasting effects.

16.1.2 List of relevant P phrases

P264W Wash with water thoroughly after handling.

P273 Avoid release to the environment.

P301+312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P330 Rinse mouth.

16.2 Training advice

Multiple safety training of staffs about danger and protection by using hazards in working area.

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DE/international: CH: FR:

Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: +1 484 821 0984 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 +1 484 821 1272 Fax: E-mail: sales-us@mn-net.com

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16.3 Recommended restriction on use

Only for professional user.

An individual package of this product or test kit has a moderate hazardous potential.

16.4

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

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

Revisions/Updates

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

2017-11 Adaption of ECHA Registration dossier

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DE/international: CH: FR:

Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: +1 484 821 0984 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 Fax: +1 484 821 1272

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