MACHEREY-NAGEL



Safety Data Sheet

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

| REF: 740966.50 | NucleoSpin TriPrep (50) | Page: 1/18 |
|---------------------------|---------------------------|------------|
| Printing date: 12.05.2021 | Date of issue: 12.04.2021 | |

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

1.1 Product identifier

REF Product name 740966.50 NucleoSpin TriPrep (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 12 mL DNA Elute 1 x 12 mL DNA Wash 1 x 7 mL DRB (OEM) 1 x 45 mL PP 1 x 7,5 mL PSB 1 x 15 mL RA2 1 x 12 mL RA3 1 x 25 mL RP1 1 x 107 mg TCEP 1 x 200 U, Size D, rDNase 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

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:

SECTION 2: Hazard identification

2.0 Classification of the complete product



Signal word

| 0 | |
|-----------------------|---------------------------|
| 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 |

DANGER

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

www.mn-net.com

MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany ACHEREY-NAGE DE/international: CH: FR: US: (MN) Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: +1 484 821 0984 ISO 9001 CERTIFIEI 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



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

MACHEREY-NAGEL



Safety Data Sheet

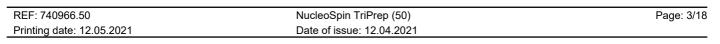
according to Regulations 1907/2006/EC (REACh) and 2015/830/EU

| REF: 740966.50 Printing date: 12.05.2021 | | NucleoSpin TriPrep (50) Date of issue: 12.04.2021 | Page: 2/1 | |
|---|------------------------------|--|-----------|--|
| 2.1 | Classification of the substa | ince or mixture | | |
| | 12 mL DNA Elute | | | |
| | Signal word | Do not need labelling as hazardous - | | |
| | No hazard class | | | |
| | 12 mL DNA Wash | | | |
| | Signal word | Do not need labelling as hazardous - | | |
| | No hazard class | | | |
| | 7 mL DRB (OEM) | | | |
| | Signal word | Do not need labelling as hazardous - | | |
| | No hazard class | | | |
| | 45 mL PP | | | |
| | Signal word | Do not need labelling as hazardous - | | |
| | Hazard identification | Hazard classes/categories | | |
| | H412 | Aquatic Chronic 3 | | |
| | 7,5 mL PSB | | | |
| | Signal word | Do not need labelling as hazardous - | | |
| | No hazard class | | | |
| | 15 mL RA2 | | | |
| | | | | |
| | Signal word | GHS02 GHS07 WARNING | | |
| | Hazard identification | Hazard classes/categories | | |
| | H226 | Flam. Liq. 3 | | |
| | H302 H412 | Acute Tox. 4 oral Aquatic Chronic 3 | | |
| | 12 mL RA3 | | | |
| | Signal word | Do not need labelling as hazardous - | | |
| | No hazard class | | | |
| | 25 mL RP1 | | | |
| | | | | |





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



| | GHS07 |
|-----------------------|--|
| Signal word | WARNING |
| Hazard identification | Hazard classes/categories |
| H302 H412 | Acute Tox. 4 oral Aquatic Chronic 3 |
| 107 mg TCEP | |
| | |
| | \mathbf{V} |
| | GHS07 |
| Signal word | WARNING |
| Hazard identification | Hazard classes/categories |
| H315 H319 | Skin Irrit. 2 Eye Irrit. 2 |
| 200 U, Size D, rDNase | |
| | |
| | |
| | GHS08 |
| Signal word | DANGER |
| | |
| Hazard identification | Hazard classes/categories |
| Hazard identification | Hazard classes/categories Resp. Sens. 1 |
| | |

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.

12 mL DNA Elute

Do not need labelling as hazardous Signal word: -

12 mL DNA Wash

Do not need labelling as hazardous Signal word: -



MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany DE/international: CH: FR: Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 Version: MV 4.12.0 E-mail: info@mn-net.com E-mail: sales-ch@mn-net.com E-mail: sales-fr@mn-net.com www.mn-net.com

US:

Tel.:

Fax:

+1 484 821 0984

+1 484 821 1272

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

CHEREY-NAGEL



Safety Data Sheet

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

| REF: 740966.50 | NucleoSpin TriPrep (50) | Page: 4/18 |
|---------------------------|---------------------------|------------|
| Printing date: 12.05.2021 | Date of issue: 12.04.2021 | |

7 mL DRB (OEM)

Do not need labelling as hazardous Signal word: -

45 mL PP

Do not need labelling as hazardous Signal word: -

H412 Harmful to aquatic life with long lasting effects.

7,5 mL PSB

Do not need labelling as hazardous Signal word: -

15 mL RA2



Signal word: WARNING

H412 Harmful to aquatic life with long lasting effects.

12 mL RA3

Do not need labelling as hazardous Signal word: -

25 mL RP1



Signal word: WARNING

H412 Harmful to aquatic life with long lasting effects.

107 mg TCEP



200 U, Size D, rDNase



Signal word: DANGER

www.mn-net.com



MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany DE/international: CH: FR: US: Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 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

+1 484 821 0984 +1 484 821 1272 E-mail: sales-us@mn-net.com



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

| REF: 740966.50 | NucleoSpin TriPrep (50) | Page: 5/18 |
|---------------------------|---------------------------|------------|
| Printing date: 12.05.2021 | Date of issue: 12.04.2021 | |

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.

13 mL RNase-free H₂ 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. The property H314 "Causes severe skin burns and eye damage." of some salts is not applicable, because the mixture is buffered to pH >3-4 (see GHS Directive 1272/2008/EC Annex I, chapter 3.2.3.1.2.). 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

12 mL DNA Elute

| Chemical: chem | icals/mixture < 1% | CAS No.: - |
|---|--|------------|
| Classification: TSCA Inventory: KE No.: Concentration: | No criteria for classification or naming of chemical not required. all listed 0.1 - <1 % | 0/10/10 |
| acc. CLP (GHS): | The criteria for classification are not fulfilled. | |

12 mL DNA Wash

| Chemical: chemic | cals/mixture < 1% | CAS No.: - |
|------------------|--|------------|
| Classification: | No criteria for classification or naming of chemical not required. | |
| TSCA Inventory: | all listed, <1% | |
| KE No.: | listed | |
| Concentration: | 0.1 - <1 % | |
| acc. CLP (GHS): | The criteria for classification are not fulfilled. | |
| | | |

7 mL DRB (OEM)

| Chemical: chemic | cals/mixture < 2% | CAS No.: - |
|------------------|--|------------|
| 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. | |
| | | |

45 mL PP



MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany DE/international: CH: FR: US: 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



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

| REF: 740966.50 | | NucleoSpin TriPrep(| , | Page: 6/ |
|---|--|---|---|--|
| Printing date: 12.05.2021 | 1 | Date of issue: 12.04.2 | 2021 | |
| (| Chemical: zinc ch Classification: Formula: ISCA Inventory: REACH Reg. No.: EC No.: ATECS: KE No.: Concentration: The classification refers to | | Indice No.: MFCD: Correlation facto | CAS No.: 7646-85-7 Aquatic Acute 1, H410, Aquatic Chronic 1 030-003-00-2 00011295 pr: x 0.48 (= %Zn) 2/EC Annex VI, 1.1.3.2 Note 1) |
| á | acc. CLP (GHS): | H412, Aquatic Chronic 3 | | |
| (| Chemical: <i>dodec</i> y Classification: | yl sulfate, sodium salt H228, Flam. Sol. 1, H302, Acute T OT SE 3, H412, Aquatic Chronic 3 | ox. 4 oral, H315, S | CAS No.: 151-21-3 kin Irrit. 2, H318, Eye Dam. 1, H332, Acute |
| F | Formula: Pseudonym: | C ₁₂ H ₂₅ NaO ₄ S sodium lauryl sulfate, sulfuric acid | monododecyl ester | - sodium salt |
| F F F | TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS): | listed 01-2119489461-32-xxxx 205-788-1 WT1050000 KE-21884 1 - <2.5 % The criteria for classification are not fulfilled | MFCD: | 00036175 |
| (| 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 ch C ₃ H ₈ O ₃ 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 | Indice No.: MFCD: | n/a 00004722 |
| (- (| Chemical: <i>indicat</i> Classification: TSCA Inventory: Concentration: acc. CLP (GHS): | or dye(s) No criteria for classification or naming of ch all listed, <1% 0.01 - <0.1 % The criteria for classification are not fulfilled | | CAS No.: - |
| 15 mL RA | 12 | | | |
| (| Classification: H412, Aquatic Chron Formula: Pseudonym: TSCA Inventory: | ic 3 C ₂ H ₆ N ₄ S guanidine rhodanide listed | ute Tox. 4 derm., H | CAS No.: 593-84-0 I314, Skin Corr. 1B, H332, Acute Tox. 4 inh. |
| E | REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: | 01-2120735072-65-0001 209-812-1 XL1225000 not listed 30 - <45 % | Indice No.: MFCD: | 615-004-00-3 00013027 |



MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany FR: CH: +41 62 388 55 00 Tel.: Tel.: +33 388 68 22 68 +49 24 21 969-199

US: Tel.: +1 484 821 0984 Fax: +1 484 821 1272

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

Fax:

DE/international:

Tel.: +49 24 21 969-0

+41 62 388 55 05 Fax: E-mail: sales-ch@mn-net.com Fax: +33 388 51 76 88 E-mail: sales-fr@mn-net.com

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



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

| REF: 740966.50 Printing date: 12.05.20 | 121 | NucleoSpin TriF Date of issue: 1 | , | Page: 7 |
|---|-----------------------------------|---|------------------------------|--|
| Tinting date. 12.05.20 | | Date of issue. T | 2.04.2021 | |
| | Chemical: ethar | | 0040/4007/EU) | CAS No.: 64-17-5 |
| | (den Classification: | atured with 1%IPA/1%MEK, acc H225, Flam. Liq. 2 | .2016/1867/EU) | |
| | Formula: | $C_2 H_6 O; C_2 H_5 OH$ | | |
| | Pseudonym: | ethyl alcohol, methylated spiri | it | |
| | TSCA Inventory: | listed | | |
| | REACH Reg. No.: | 01-2119457610-43-xxxx | | |
| | EC No.: | 200-578-6 | Indice No.: | 603-002-00-5 |
| | RTECS: | KQ6300000 | MFCD: | 00003568 |
| | KE No.: | KE-13217 | | |
| | Concentration: acc. CLP (GHS): | 20 - <35 % H226, Flam. Liq. 3 | | |
| 40 | | | | |
| 12 mL | | nicals/mixture < 1% | | CAS No.: - |
| | Classification: | No criteria for classification or naming | g of chemical not required. | |
| | TSCA Inventory: | all listed, <1% | | |
| | KE No.: | listed | | |
| | Concentration: | 0.1 - <1 % | | |
| | acc. CLP (GHS): | The criteria for classification are not f | fulfilled. | |
| 25 mL | RP1 | | | |
| | Chemical: guan Classification: | idinium thiocyanate | 2 Acute Tox / derm H3 | CAS No.: 593-84-0 314, Skin Corr. 1B, H332, Acute Tox. 4 inh. |
| | H412, Aquatic Chro | | z, Adule Tox. 4 defini., fic | 14, Skill Coll. 15, 11352, Acute 10X. 4 lill. |
| | Formula: | C ₂ H ₆ N ₄ S | | |
| | Pseudonym: | guanidine rhodanide | | |
| | TSCA Inventory: | listed | | |
| | REACH Reg. No.: | 01-2120735072-65-0001 | | |
| | EC No.: | 209-812-1 | Indice No.: | 615-004-00-3 |
| | RTECS: | XL1225000 | MFCD: | 00013027 |
| | KE No.: Concentration: | not listed 45 - <60 % | | |
| | acc. CLP (GHS): | H302, Acute Tox. 4 oral, H41 | 2, Aquatic Chronic 3 | |
| 107 mg | TCEP | | | |
| | | 2-carboxyethyl)phosphine hydrod | chloride. TCEP(•HCl) | CAS No.: 51805-45-9 |
| | Classification: | H315, Skin Irrit. 2, H319, Eye | | |
| | Formula: | C ₉ H ₁₆ CIO ₆ P | | |
| | Pseudonym: | TCEP•HCI | | |
| | TSCA Inventory: | LVE | MFCD: | 00145469 |
| | KE No.: | not listed | | |
| | Concentration: acc. CLP (GHS): | 70 - <100 % H315, Skin Irrit. 2, H319, Eye | Irrit 2 | |
| | . , | | | |
| | Chemical: inorgation: | anic salts, declaration not neces | , | CAS No.: - |
| | Pseudonym: | No criteria for classification or naming not hazardous | g of chemical not required. | |
| | TSCA Inventory: | all listed | | |
| | KE No.: | listed | | |
| | Concentration: | 25 - <50 % | | |
| | acc. CLP (GHS): | The criteria for classification are not f | fulfilled. | |
| 200 U. : | Size D, rDNase | | | |
| 200 0, | Chemical: rDNa | se | | CAS No.: 9003-98-9 |
| | Classification: | H334, Resp. Sens. 1 | | |
| | Formula: | Enzyme Comm. No. 3.1.21.1, | origin: cloned | |
| | Pseudonym: | Nuclease, deoxyribo- | | |
| | TSCA Inventory: EC No.: | listed 232-667-0 | | |
| | RTECS: | Z3Z-667-0 RF0750000 | | |
| | KE No.: | KE-09612 | | |
| | Concentration: | 90 - <100 % | | |
| | acc. CLP (GHS): | H334, Resp. Sens. 1 | | |
| | | | | |
| | | | | |
| | | | | |



MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany FR: US: DE/international: CH: Tel.: +49 24 21 969-0 Fax: +49 24 21 969-199 Tel.: +41 62 388 55 00 Fax: +41 62 388 55 05 +33 388 68 22 68 Tel.: +1 484 821 0984 Tel.: 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

com



CAS No.: 7732-18-5

Safety Data Sheet

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

| REF: 740966.50 | NucleoSpin TriPrep (50) | Page: 8/18 |
|---------------------------|---------------------------|------------|
| Printing date: 12.05.2021 | Date of issue: 12.04.2021 | |
| | | |

13 mL RNase-free H₂ O

Chemical: water Classification: N Formula: H TSCA Inventory: Iiis REACH Reg. No.: e EC No.: 2 RTECS: 2 KE No.: K Concentration: 9 acc. CLP (GHS): Th

No criteria for classification or naming of chemical not required. H₂ 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



www.mn-net.com

MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6–8 · 52355 Düren · Germany DE/international: CH: FR:

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

US: Tel.: +1 484 821 0984 Fax: +1 484 821 1272 E-mail: sales-us@mn-net.com



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

| REF: 740966.50 | NucleoSpin TriPrep (50) | Page: 9/18 |
|---------------------------|---------------------------|------------|
| Printing date: 12.05.2021 | Date of issue: 12.04.2021 | |

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.

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

| 12 mL DNA Chemical: | Elute chemicals/mixtur | e < 1% | CAS No.: - |
|------------------------|---------------------------------------|-------------------------------------|--|
| 12 mL DNA | | | 0101 |
| Chemical: | chemicals/mixtur | e < 1% | CAS No.: - |
| 7 mL DRB (0 | DEM) | | |
| Chemical: | chemicals/mixtur | e < 2% | CAS No.: - |
| 45 mL PP | | | |
| Chemical: | zinc chloride | | CAS No.: 7646-85-7 |
| DNEL: DNEL: | 1. Derived No-Effect Leve | 3zn, inh mg/m³ /el (for workers) | |
| PNEC(fresh w PNEC | ater) : 0. = Predicted No Effected | 0206 mg/L d Concentration | |
| SUVA(CH) M | IAK value: 1 | a mg/m³ | |
| NIOSH: | | ot listed | |
| | | | t-term exposure limit related to a 15-minute period |
| OSHA: | no | ot listed | |
| 7,5 mL PSB | | | |
| Chemical: | dodecyl sulfate, s | | CAS No.: 151-21-3 |
| NIOSH: | | ot listed | the second second limit related to a dr. with the second |
| | | | t-term exposure limit related to a 15-minute period |
| OSHA: | no | ot listed | |
| Chemical: | glycerole | | CAS No.: 56-81-5 |
| DNEL: | [ir | ոհ] 56 mg/m³ | |
| DNEL | = Derived No-Effect Lev | vel (for workers) | |
| PNEC(fresh w | ater) · 0 | 885 mg/L | |



MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany DE/international: CH: FR: US: 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



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

| REF: 740966 | | | NucleoSpin TriPrep (50) | | Page: 10/ |
|----------------|----------------------------------|---|---|--|-----------|
| Printing date: | 12.05.2021 | | Date of issue: 12.04.2021 | | |
| | | | | | |
| | | | ected Concentration | | |
| | TRGS 900 (I | DE): | 200 E mg/m ³ E/e respirable | | |
| | | xposure factor: esorptive (H), respi | | securely excluded / (Y) certainly excluded | |
| | SUVA(CH) N | /IAK value: | 50 e* mg/m³ | | |
| | Chemical: | indicator dye(| (s) | CAS No.: - | |
| | 15 mL RA2 | | | 040 N/- 500 04 0 | |
| | Chemical: DNEL: | guanidinium t = Derived No-Effect | <i>hiocyanate</i> [inh] 1092 μg/m³ t Level (for workers) | CAS No.: 593-84-0 | |
| | PNEC(fresh w | vater) | 42.4 μg/L ected Concentration | | |
| | | Time-weighted ave | not listed prage to a reference period of 8 hours, [STEL] Short-term exposur | e limit related to a 15-minute period | |
| | OSHA: | | not listed | | |
| | Chemical: DNEL: | ethanol | [derm] 343 mg/kg; [inh] 950 mg/m³ | CAS No.: 64-17-5 | |
| | | | t Level (for workers) 0.96 mg/L ected Concentration | | |
| | TRGS 900 (I | DE): | 200 mL/m ³ / 380 mg/m ³ E/e respirable | | |
| | Short-term e | xposure factor: esorptive (H), respi | 4 (II), Y ratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not | securely excluded / (Y) certainly excluded | |
| | SUVA(CH) N NIOSH: | | 500 ppm / 960 mg/m³ [TWA] 1000 ppm / 1900 mg/m³ erage to a reference period of 8 hours, [STEL] Short-term exposur | e limit related to a 15-minute period | |
| | OSHA: | | [TWA] 1000 ppm / 1900 mg/m ³ | | |
| | 12 mL RA3 Chemical: | chemicals/mix | xture < 1% | CAS No.: - | |
| | | | | | |
| | 25 mL RP1 Chemical: DNEL: | guanidinium t | hiocyanate [inh] 1092 μg/m³ | CAS No.: 593-84-0 | |
| | DNEL PNEC _{(fresh w} | rater): | t Lèvel (for workers) 42.4 μg/L | | |
| | PNEC NIOSH: | = Predicted No Effe | ected Concentration not listed | | |
| | ^[TWA] OSHA: | Time-weighted ave | rage to a reference period of 8 hours, [STEL] Short-term exposur not listed | e limit related to a 15-minute period | |
| | 107 mg TCE | P | | | |
| | Chemical: | | yethyl)phosphine hydrochloride, TCEP(•HCl) | CAS No.: 51805-45-9 | |
| | Chemical: | inorganic salt | s, declaration not necessary | CAS No.: - | |
| | 200 U, Size Chemical: | D, rDNase rDNase | | CAS No.: 9003-98-9 | |
| | 13 mL RNas | se-free H ₂ O | | | |
| | Chemical: | water | | CAS No.: 7732-18-5 | |

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**

MACHEREY-NAGE $\langle MN \rangle$ ISO 9001 CERTIFIED

MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany DE/international: CH: FR: +41 62 388 55 00 Tel.: +49 24 21 969-0 Tel.: Tel.: +33 388 68 22 68 +49 24 21 969-199 +41 62 388 55 05 Fax: Fax: Fax: +33 388 51 76 88 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

US: Tel.: +1 484 821 0984 Fax: +1 484 821 1272 E-mail: sales-us@mn-net.com



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

| REF: 740966.50 | NucleoSpin TriPrep (50) | Page: 11/18 |
|---------------------------|---------------------------|-------------|
| Printing date: 12.05.2021 | Date of issue: 12.04.2021 | |

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

8.2.2 Hand protection

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.

Eye protection 8.2.3

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

12 mL DNA Elute

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

| Appearance: liquid pH: Specific gravity: | Colour: colourless 6.5-7.5 1.0 g/cm³ | Odor: odorless |
|--|--|-------------------|
| 12 mL DNA Wash Appearance: liquid pH: Specific gravity: | Colour: colourless 6.5-7.5 1.0 g/cm³ | Odor: odorless |
| 7 mL DRB (OEM) Appearance: liquid pH: Specific gravity: | Colour: colourless 6.5-7.5 1.01 g/cm³ | Odor: odorless |
| 45 mL PP Appearance: liquid pH: Specific gravity: | Colour: colourless 3.5-4.5 1.01 g/cm³ | Odor: odorless |
| 7,5 mL PSB Appearance: liquid pH: Specific gravity: | Colour: green 6.5-7 1.06 g/cm³ | Odor: odorless |
| 15 mL RA2 Appearance: liquid pH: Flash point: Specific gravity: | Colour: colourless 7.0-7.5 28 °C 1.03 g/cm³ | Odor: alcoholic |
| 12 mL RA3 Appearance: liquid pH: Specific gravity: | Colour: colourless 7-8 1.00 g/cm³ | Odor: odorless |
| 25 mL RP1 Appearance: liquid pH: Specific gravity: | Colour: colourless 6.5-7.5 1.13 g/cm³ | Odor: odorless |
| 107 mg TCEP Appearance: solid (lyoph.) | Colour: colourless | Odor: penetrative |



MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany DE/international: CH: Tel.: +49 24 21 969-0 Tel.: Fax: +49 24 21 969-199 Fax:

+41 62 388 55 00 +41 62 388 55 05 E-mail: sales-ch@mn-net.com FR: Tel.: +33 388 68 22 68 Fax: +33 388 51 76 88 E-mail: sales-fr@mn-net.com

US: Tel.: +1 484 821 0984 Fax: +1 484 821 1272 E-mail: sales-us@mn-net.com

www.mn-net.com

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



arding to Degulations 4007/2006/EC (DEACh) and 2045/220/EL

| | 40966.50 g date: 12.05.2021 | | NucleoSpin TriPrep (50) Date of issue: 12.04.2021 | | |
|------|---|---|--|---------------------|--|
| | pH: | 6.5-7 | | | |
| | 200 U, Size D, rDNase Appearance: solid (lyoph.) | Colour: white | Odor: odorless | | |
| | 13 mL RNase-free H ₂ O 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 Relevant Properties of Substanc | | ause no registration and no chemical safety | report is required. | |
| SECT | ION 10: Stability and re | activity | | | |
| 10.1 | | | | | |
| 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 a | alkalines. | | | |
| 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. | | | | |
| SECT | FION 11: Toxicological ir | nformation | | | |
| 11.1 | Information on toxicological effects Following information is valid for pure substances. Quantitative data on the toxicity of this product are not available. | | | | |
| | | <i>ls/mixture < 1%</i> all listed, <1% isted | CAS No.: - | | |
| | | ls/mixture < 1% | CAS No.: - | | |
| | TSCA Inventory: a Korea Exist.Chem.Inventory: I | all listed, <1% isted | | | |
| | 7 mL DRB (OEM) | | | | |
| | Chemical: chemical | ls/mixture < 2% all listed <2% | CAS No.: - | | |

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

45 mL PP

www.mn-net.com

MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany MACHEREY-NAGE FR: US: DE/international: CH: <u> (MN)</u> Tel.: +49 24 21 969-0 Fax: +49 24 21 969-199 Tel.: +41 62 388 55 00 Fax: +41 62 388 55 05 Tel.: +33 388 68 22 68 Tel.: +1 484 821 0984 ISO 9001 CERTIFIED 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



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

| REF: 740966. | | NucleoSpin TriPr | , | Page: 13 |
|----------------|--|--|---|---|
| Printing date: | 12.05.2021 | Date of issue: 12 | .04.2021 | |
| | Chemical: TSCA Inventory: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.In LD50orl rat : LD50orl mus : | | Proposition 65 List: not listed nada CEPA 1999: DSL Yes PDSCL: Deleterious Substanc | NS No.: 7646-85-7 e |
| 7,5 | mL PSB | | | |
| | Chemical: TSCA Inventory: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.In LD50orl rat : LC50inh rat : LD50drm rbt : | not listed Ca PRTR - Class I Designated Che not listed not listed | Proposition 65 List: not listed nada CEPA 1999: DSL yes | \S No.: 151-21-3 CL: not listed |
| | Chemical: TSCA Inventory: | <i>glycerole</i> listed (1,2,3-Propanetriol) | CA | NS No.: 56-81-5 |
| | Exposure Routes: Target Organs: Symptoms: Japan CSCL/PRTR: Japan ISHL: Korea Exist.Chem.In LD50 _{orl rat} : LD50 _{drm rbt} : | inhalation, skin and/or eye conta Eyes, skin, respiratory system, k irritation eyes, skin, respiratory s not listed, Japan PDSCL: not list not listed | idneys ystem; headache, nausea, vo | miting; kidney injury |
| | TRGS 905 (DE): | R _F C | | |
| | Chemical: TSCA Inventory: | <i>indicator dye(</i> s) all listed, <1% | CA | \S No.: - |
| 15 | mL RA2 | | | |
| | Chemical: TSCA Inventory: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.In LD50orl rat : LC50drm rbt : LC50ihl rat : LD50jor mus : | not listed Ca not listed, Japan PDSCL: not list not listed not listed | Proposition 65 List: not listed nada CEPA 1999: DSL yes ed | NS No.: 593-84-0 |
| | Chemical: TSCA Inventory: ACGIH: Exposure Routes: | ethanol listed California 1000 ppm inhalation, ingestion, skin and/or | Proposition 65 List: not listed | NS No.: 64-17-5 |
| | Target Organs: Symptoms: | Eyes, skin, respiratory system, c irritation eyes, skin, nose; heada ; reproductive, teratogenic not listed Ca not listed, Japan PDSCL: not list listed ≥0,1%/≥0,1%, Article 57-2 not listed | entral nervous system, liver, b che, drowsiness, lassitude (w nada CEPA 1999: DSL yes ed | blood, reproductive system eakness, exhaustion), narcosis; cougl www.mn-n |
| MACHEREY | -NAGEL GmbH & Co | KG · Neumann-Neander-Str. 6–8 · 523 | 355 Düren · Germany | |
| | | CH: FR: | | US: |
| DE/internati | | | and the answer of the second second | |
| Tel.: +49 | 24 21 969-0 24 21 969-199 | Tel.: +41 62 388 55 00 Tel. Fax: +41 62 388 55 05 Fax | | Tel.: +1 484 821 0984 Fax: +1 484 821 1272 |



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

| 740966.50 | | pin TriPrep (50) | Page: 14/1 |
|---|---------------------------------------|---|---------------------------------|
| ting date: 12.05.2021 | Date of i | ssue: 12.04.2021 | |
| | | | |
| LC_Low _{ihl gpg} : | 21.9 g/m³ | | |
| LC_Loworl hmn : | 1400 mg/kg | | |
| LC50 _{ihl mouse} : | [4h] 39 g/m³ | | |
| LC50 _{ihl rat} : | [10h] 20 g/m ³ | | |
| LD50 _{drm rbt} : | 20 000 mg/kg | | |
| LD50 _{oral mouse} : | 3450 mg/kg | | |
| TRGS 905 (DE): | K5, M5, R _F C | | |
| 12 mL RA3 | | | |
| Chemical: | chemicals/mixture < 1% | CAS No.: | _ |
| TSCA Inventory: | all listed, <1% | 0.40 110 | |
| Korea Exist.Chem.Inv | | | |
| | | | |
| 25 mL RP1 | | | |
| | guanidinium thiocyanate | CAS No.: | 593-84-0 |
| TSCA Inventory: Australia NICNAS: | | alifornia Proposition 65 List: not listed | |
| Japan CSCL/PRTR: | not listed not listed, Japan PDSCI | Canada CEPA 1999: DSL yes | |
| Japan ISHL: | not listed | | |
| • | | | |
| South Korea TCCA: | not listed | | |
| Korea Exist.Chem.Inv | | | |
| LD50 _{orl rat} : | 593 mg/kg | | |
| LC50drm rbt : | >2000 mg/m ³ | | |
| LC50 _{ihl rat} : | [4h] 5.319 mg/L | | |
| LD50 _{ipr mus} : | 300 mg/kg | the state of the second state of the second the second state of | |
| | and oral make, impairments of | health when ingested in small quantities. | |
| 107 mg TCEP | | | |
| | tris-(2-carboxyethyl)phosphine h | iydrochloride, TCEP(•HCl) CAS No.: | 51805-45-9 |
| TSCA Inventory: | LVE | | |
| Korea Exist.Chem.Inv | | | |
| LD50 _{orl rat} : | 3500 mg/kg | | |
| LD50intraperitonaeal rat : | | | |
| LD50 _{scu rat} : | >3000 mg/kg | | |
| Chemical: | inorganic salts, declaration not r | necessary CAS No.: | - |
| TSCA Inventory: | all listed | • | |
| Korea Exist.Chem.Inv | entory: listed | | |
| | | | |
| 200 U, Size D, rDNa Chemical: | se rDNase | CAS No. | 9003-98-9 |
| TSCA Inventory: | listed | CAS NO | 0000-00-0 |
| Japan CSCL/PRTR: | not listed | | |
| Japan ISHL: | not listed | | |
| Korea Exist.Chem.Inv | | | |
| | after impairments of health whe | n indested in small quantities | |
| | | act, also in repeated contact of small amounts | May cause alleray or asthma |
| Chronic Effects: May | g difficulties if inhaled. | | . may badde anorgy or abuilling |
| | | | |
| | 2 O | | |
| symptoms or breathin 13 mL RNase-free H Chemical: | water | CAS No.: | 7732-18-5 |
| symptoms or breathin 13 mL RNase-free H Chemical: TSCA Inventory: | <i>water</i> listed | CAS No.: | 7732-18-5 |
| symptoms or breathin 13 mL RNase-free H Chemical: | <i>water</i> listed | CAS No.: | 7732-18-5 |



MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany FR: US: DE/international: CH: Tel.: +41 62 388 55 00 Fax: +41 62 388 55 05 Tel.: +49 24 21 969-0 Tel.: +33 388 68 22 68 +49 24 21 969-199 Fax: Fax: +33 388 51 76 88 E-mail: sales-ch@mn-net.com E-mail: sales-fr@mn-net.com

Tel.: +1 484 821 0984 Fax: +1 484 821 1272 E-mail: sales-us@mn-net.com

www.mn-net.com

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



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

| | 40966.50) date: 12.05.2021 | NucleoSpin TriPrep (50) Date of issue: 12.04.2021 | | Page: 15/18 |
|------|---|--|-------------------|-------------|
| | ION 12: Ecological information | | | |
| 12.1 | Toxicity Following information is valid for pure sub | | | |
| | 12 mL DNA Elute | | CAS No. | |
| | Chemical: chemicals/mixi Water hazard class (DE): Storage class (VCI): | 1 1 12-13 | CAS No.: - | |
| | | 12-13 | | |
| | 12 mL DNA Wash Chemical: chemicals/mixi | cture < 1% | CAS No.: - | |
| | Water hazard class (DE): Storage class (VCI): | 1 12-13 | - | |
| | 7 mL DRB (OEM) | · | 040 No | |
| | Chemical: chemicals/mixi Water hazard class (DE): Storage class (VCI): | 1 | CAS No.: - | |
| | Storage class (VCI): | 12-13 | | |
| | | ing effects. Avoid contact of substance/mixture to env labelled with P phrases until 125 mL (EU 1272/2008 | | |
| | LC50 _{fish/96h} : EC50 _{daphnia} /48h : | 38 mg/L 1.24 mg/L | | |
| | EC50pseudokirchneriella subcapitata/72h | 0.05 mg/L | | |
| | Water hazard class (DE): Storage class (VCI): | 3 WGK No.: 0207 11 | | |
| | 7,5 mL PSB | | | |
| | Chemical: dodecyl sulfate LC50 _{daphnia magna/48h} : LC50 _{fish/96h} : | 6.3 mg/L 1.31-22.5 mg/L | CAS No.: 151-21-3 | |
| | Water hazard class (DE): Dispersion coefficient _(octanol-water) : Storage class (VCI): | 2 1.6 12-13 | | |
| | Chemical: glycerole | 0.995 ~~~// | CAS No.: 56-81-5 | |
| | PNEC _{(fresh} water) : PNEC = Predicted No Effected Concentration LC50fish/96h : | | | |
| | EC50 _{daphnia/48h} : | >5000 _{24h} mg/L >10 _{24h} g/L | | |
| | IC50scenedesmus quadricauda/72h EC10pseudomonas putita/16h | IC5 _{7d} >10 g/L EC5: >10 g/L | | |
| | Water hazard class (DE): | 0 | | |
| | Dispersion coefficient _(octanol-water) : Storage class (VCI): | -1.76 10 | | |
| | Chemical: indicator dye(s Storage class (VCI): | s) 12-13 | CAS No.: - | |
| | 15 mL RA2 | | | |
| | Chemical: guanidinium th Harmful to aquatic life with long lasti | ing effects. Avoid contact of substance/mixture to env labelled with P phrases until 125 mL (EU 1272/2008 | | |
| | LC50 _{fish/96h} : | [4d] 89.1 mg/L | | |
| | EC50 _{daphnia} /48h | 42.4 mg/L | | |
| | IC50 _{scenedesmus} quadricauda/72h: EC10 _{pseudomonas} putita/16h: Water hazard class (DE): | 130 mg/L [10d] 200 mg/L 3 | | |
| | Dispersion coefficient _(octanol-water) : Storage class (VCI): | с [pH 5.1] -1.11 12 | | |
| | | 12 | | www.mn-nei |



Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +49 24 21 969-199 +41 62 388 55 05 Fax: Fax: E-mail: sales-ch@mn-net.com

CH:

FR: +33 388 68 22 68 +33 388 51 76 88 E-mail: sales-fr@mn-net.com US: +1 484 821 0984 Tel.: +1 484 821 1272 Fax: E-mail: sales-us@mn-net.com

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

Fax:

DE/international:



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

| REF: 740966.50 | NucleoSpin TriPrep (50) | Page: 16/1 |
|---|--|---------------------|
| Printing date: 12.05.2021 | Date of issue: 12.04.2021 | |
| Chemical: ethanol PNEC(fresh water) : PNEC = Predicted No Effected Concentration | 0.96 mg/L | CAS No.: 64-17-5 |
| LC50daphnia magna/48h : LC50pimephales promelas/96h : LC50leuciscus idus/96h : LC50dish/96h : EC50daphnia/48h : IC50scenedesmus quadricauda/72h : EC10pseudomonas putita/16h : Water hazard class (DE): Dispersion coefficient(octanol-water) : | >100 mg/L 13400 - 15100 mg/L [48h] 8140 mg/L 13 g/L 9.3-14.2 g/L [7d] 5000 mg/L [EC5] 6500 mg/L 1 WGK No.: 0096 -0.31 3 | |
| | ure < 1% 1 12-13 | CAS No.: - |
| Environmental hazards must not be la PNEC(fresh water) : PNEC = Predicted No Effected Concentration | iocyanate ng effects. Avoid contact of substance/mixture to env abelled with P phrases until 125 mL (EU 1272/2008 42.4 μg/L [4d] 89.1 mg/L | |
| IC50 _{scenedes} mus quadricauda/72h : EC10 _{pseudomonas} putita/16h : Water hazard class (DE): Dispersion coefficient _(octanol-water) : | 42.4 mg/L 130 mg/L [10d] 200 mg/L 3 [pH 5.1] -1.11 12 | |
| | ethyl)phosphine hydrochloride, TCEP(•HCl) 12-13 | CAS No.: 51805-45-9 |
| Water hazard class (DE): | declaration not necessary 1 12-13 | CAS No.: - |
| | 1 WGK No.: n.n. 13 | CAS No.: 9003-98-9 |
| 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 assessm no data available | ent | |



MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany FR: DE/international: CH: Tel.: +41 62 388 55 00 Fax: +41 62 388 55 05 Tel.: +49 24 21 969-0 Tel.: +33 388 68 22 68 +49 24 21 969-199 Fax: Fax: +33 388 51 76 88 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

US: Tel.: +1 484 821 0984 Fax: +1 484 821 1272 E-mail: sales-us@mn-net.com



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

REF: 740966.50 Printing date: 12.05.2021 NucleoSpin TriPrep (50) Date of issue: 12.04.2021 Page: 17/18

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

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

| or | • | |
|----------------------|-----------|---|
| 14.1 UN number: | 1993 14.2 | UN proper shipping name: Flammable liquid, n.o.s. (ethanol mixture) |
| 14.3 Class: | 3 14.4 | Packing group: III |
| Road transport | | |
| Classification code: | F1 | |
| Limited Quantity: | 5 L | Tunnel restriction code: E |
| Excepted Quantity: | E 1 | Special instructions: 640E |
| Air transport | | |
| PAX: | 355 | max. weight PAX: 60 L |
| CAO: | 366 | max. weight CAO: 220 L |
| Maritime transport | | |
| EmS: | F-E, S-E | Storage category: A |

14.5 Environmental hazards

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

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

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

ACHEREY-NAGE (MN> ISO 9001 CERTIFIE

MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany DE/international: CH: FR: US: 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



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

| REF: 7 | 40966.50 | NucleoSpin TriPrep (50) Page: 1 | 8/18 |
|----------|--|---|------|
| Printing | g date: 12.05.2021 | Date of issue: 12.04.2021 | |
| | P261sh P264W P273 P280sh P301+312 P304+340 P330 P342+311 | Avoid breathing dust/vapours. Wash with water thoroughly after handling. Avoid release to the environment. Wear protective gloves/eye protection. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Rinse mouth. If experiencing respiratory symptoms: Call a POISON CENTER/doctor. | |
| 16.2 | Training advice Multiple safety training of staffs for using these pr | of staffs about danger and protection by using hazards in working area. Additionally training and introduction | of |

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.

MACHEREY-NAGEL GmbH & Co. KG makes NO REPRESENTATIONS or WARRANTIES, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly MACHEREY-NAGEL GmbH & Co. KG will not be responsible for damages resulting from use of or reliance upon this information. See terms and conditions at the end of our price lists for additional information.

Sources of key data 16.5

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

 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

www.mn-net.com



MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany DE/international: CH: FR: US: Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 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

+1 484 821 0984 +1 484 821 1272 E-mail: sales-us@mn-net.com