

Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740966.250
 Printing Date: 04.04.2023

NucleoSpin TriPrep (250)
 Date of Issue: 27.02.2023

Page: 1/21
 Version: 2.2.7.6

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

1.1 Product Identifier / Product Name

REF	740966.250	
Product Name	NucleoSpin TriPrep (250)	
5 x 200 U rDNase		UFI: 8SGV-63EY-520U-3WWU
5 x 107 mg TCEP		UFI: SUNV-235D-8202-429N
1 x 60 mL RNase-free H ₂ O		
1 x 30 mL Buffer for rDNase		
3 x 25 mL RA3		
1 x 80 mL RA2		UFI: GE6V-136P-S20W-0QDT
5 x 12 mL DNA Wash		
3 x 12 mL DNA Elute		
1 x 40 mL PSB		
1 x 125 mL RP1		UFI: 1A6V-H3H9-G20E-ACTR
1 x 225 mL PP		UFI: 32GV-43WS-Q20W-T68A

1.2 Relevant identified Uses of the Substance or Mixture and Uses advised against

Relevant identified uses

Product for analytical use.

Exposure Scenario Classification according REACH, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0
 The exposure scenario is integrated into sections 1-16.

Uses advised against

not described

1.3 Details of the Supplier and of the Safety Data Sheet

Manufactured by:

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

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.

USA: American Association Of Poison Control Centers

Rockville, MD 20857. tel. 1-800-222-1222, <<https://www.poisonhelp.org>>

DE: Gemeinsames Giftinformationszentrum (GGIZ)

99089 Erfurt tel. +49 361 730 730

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

You find our current versions of SDS in Internet:

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

SECTION 2: Hazard(s) Identification

2.0 Classification of the complete Product



Signal Word

DANGER

Hazard Identification

Hazard Classes/Categories

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



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Page: 2/21
 Version: 2.2.7.6

2.1 Classification of the substance or mixture

40 mL PSB

Signal Word Do not need labelling as hazardous
 -
 No Hazard Class

107 mg TCEP



GHS07

Signal Word WARNING

Hazard Identification	Hazard Classes/Categories
H315	Skin Irrit. 2
H319	Eye Irrit. 2

125 mL RP1



GHS07

Signal Word WARNING

Hazard Identification	Hazard Classes/Categories
H302	Acute Tox. 4 oral
H412	Aquatic Chronic 3

80 mL RA2



GHS02



GHS07

Signal Word WARNING

Hazard Identification	Hazard Classes/Categories
H226	Flam. Liq. 3
H302	Acute Tox. 4 oral
H412	Aquatic Chronic 3

225 mL PP



GHS07

Signal Word WARNING

Hazard Identification	Hazard Classes/Categories
H315	Skin Irrit. 2
H319	Eye Irrit. 2
H412	Aquatic Chronic 3



Safety Data Sheet

SDS acc. Hazard Communication Standard

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NucleoSpin TriPrep (250)
 Date of Issue: 27.02.2023

Page: 3/21
 Version: 2.2.7.6

60 mL RNase-free H₂O

Signal Word Do not need labelling as hazardous
 -
 No Hazard Class

200 U rDNase



GHS08

Signal Word DANGER
Hazard Identification **Hazard Classes/Categories**
 H334 Resp. Sens. 1

25 mL RA3

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

12 mL DNA Elute

Signal Word Do not need labelling as hazardous
 -
 No Hazard Class

30 mL Buffer for rDNase

Signal Word Do not need labelling as hazardous
 -
 No Hazard Class

List of H phrases: see section 16.2

2.2 Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

According to the implementation of GHS immediate packages only must be labelled with product identifier(s), GHS symbol(s), signal word, manufacturer name and phone number (OSHA's interpretation of HCS 2012). 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) / **until 100 mL** (Canada WHMIS 2015). This labelling exemption does not apply to U.S.A. This labelling exemption is NOT valid for sensiblizing substances.

40 mL PSB
 Do not need labelling as hazardous
 Signal Word: -

107 mg TCEP



GHS07



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NucleoSpin TriPrep (250)
 Date of Issue: 27.02.2023

Page: 4/21
 Version: 2.2.7.6

Signal Word: WARNING

125 mL RP1



GHS07

Signal Word: WARNING

80 mL RA2



GHS02



GHS07

Signal Word: WARNING

225 mL PP



GHS07

Signal Word: WARNING

H315, H319, H412

Causes skin irritation. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

P273, P280sh

Avoid release to the environment. Wear protective gloves/eye protection.

60 mL RNase-free H₂O

Do not need labelling as hazardous

Signal Word: -

200 U rDNase



GHS08

Signal Word: DANGER

H334

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

P261sh, P342+311

Avoid breathing dust/vapors. If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

25 mL RA3

Do not need labelling as hazardous

Signal Word: -

12 mL DNA Wash

Do not need labelling as hazardous

Signal Word: -

12 mL DNA Elute

Do not need labelling as hazardous

Signal Word: -

30 mL Buffer for rDNase

Do not need labelling as hazardous

Signal Word: -

Label elements of the complete product



GHS02



GHS07



GHS08



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NucleoSpin TriPrep (250)
 Date of Issue: 27.02.2023

Page: 5/21
 Version: 2.2.7.6

Signal Word: DANGER
 H315, H319, H334, H412
 Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Harmful to aquatic life with long lasting effects.
 P261sh, P273, P280sh, P342+311
 Avoid breathing dust/vapors. Avoid release to the environment. Wear protective gloves/eye protection. If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

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. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 Kit contains small amounts of enzymes, which may cause sensitization by direct and repeated contact.

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

Possible endocrine disrupting effects

data not available

SECTION 3: Composition/Information on Ingredients

3.1 Substances or 3.2 Mixtures

107 mg TCEP

Substance name: *tris-(2-carboxyethyl)phosphine hydrochloride, TCEP(+HCl)*
 CAS No.: 51805-45-9

Substance rating: H315, Skin Irrit. 2, H319, Eye Irrit. 2
 Chemical Formula: C₉H₁₆ClO₆P
 Synonyms (de): TCEP+HCl
 Concentration: 70 - <100 %
 acc. GHS: H315, Skin Irrit. 2, H319, Eye Irrit. 2

Substance name: *inorganic salts, declaration not necessary*
 CAS No.: -

Substance rating: No criteria for classification or naming of chemical is not required.
 Synonyms (de): kein Gefahrstoff
 Concentration: 25 - <50 %
 acc. GHS: The criteria for classification are not fulfilled.

80 mL RA2

Substance name: *guanidinium thiocyanate*
 CAS No.: 593-84-0

Substance rating: H302, Acute Tox. 4 oral, H312, Acute Tox. 4 derm., H314, Skin Corr. 1C, H332, Acute Tox. 4 inh., H412, Aquatic Chronic 3
 Chemical Formula: C₂H₆N₄S
 Synonyms (de): Guanidiniumrhodanid
 REACH Reg. No.: 01-2120735072-65-0001
 EC No.: 209-812-1
 Concentration: 30 - <45 %
 acc. GHS: H302, Acute Tox. 4 oral, H412, Aquatic Chronic 3

Indice No.: 615-004-00-3



Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740966.250	NucleoSpin TriPrep (250)	Page: 6/21
Printing Date: 04.04.2023	Date of Issue: 27.02.2023	Version: 2.2.7.6

Substance name: *ethanol*
 CAS No.: 64-17-5
 (denatured with 1% 2-butanone)
 Substance rating: H225, Flam. Liq. 2
 Chemical Formula: C₂H₆O; C₂H₅OH
 Synonyms (de): Äthylalkohol, vergällter Spiritus
 REACH Reg. No.: 01-2119457610-43-xxxx
 EC No.: 200-578-6
 Concentration: 20 - <35 %
 acc. GHS: H226, Flam. Liq. 3

Indice No.: 603-002-00-5

200 U rDNase

Substance name: *rDNase*
 CAS No.: 9003-98-9
 Substance rating: H334, Resp. Sens. 1
 Chemical Formula: Enzyme Comm. No. 3.1.21.1, origin: cloned
 Synonyms (de): Deoxyribonucleodepolymerase
 EC No.: 232-667-0
 Concentration: 90 - <100 %
 acc. GHS: H334, Resp. Sens. 1

225 mL PP

Substance name: *zinc chloride*
 CAS No.: 7646-85-7
 Substance rating: H302, Acute Tox. 4 oral, H314, Skin Corr. 1B, H318, Eye Dam. 1, H335, STOT SE 3, H400, Aquatic 1, H410, Aquatic Chronic 1
 Chemical Formula: ZnCl₂
 Synonyms (de): Chlorzink
 REACH Reg. No.: 01-2119472431-44-xxxx
 EC No.: 231-592-0
 Concentration: 1 - <2,09 %
 The classification refers to the weight percentage of the metal (according to CLP regulation 2008/1272/EG Annex VI, 1.1.3.2 Note 1)
 acc. GHS: H315, Skin Irrit. 2, H319, Eye Irrit. 2, H412, Aquatic Chronic 3

Indice No.: 030-003-00-2
 Correlation Factor: x 0.48 (= %Zn)

40 mL PSB

Substance name: *indicator dye(s)*
 CAS No.: -
 Substance rating: No criteria for classification or naming of chemical is not required.
 Concentration: 0,01 - <0,1 %
 acc. GHS: The criteria for classification are not fulfilled.

Substance name: *glycerole*
 CAS No.: 56-81-5
 Substance rating: No criteria for classification or naming of chemical is not required.
 Chemical Formula: C₃H₈O₃
 Synonyms (de): 1,2,3-Propantriol
 REACH Reg. No.: 01-2119471987-18-xxxx
 EC No.: 200-289-5
 Concentration: 10 - <50 %
 acc. GHS: The criteria for classification are not fulfilled.

Indice No.: n/a

Substance name: *dodecyl sulfate, sodium salt*
 CAS No.: 151-21-3
 Substance rating: H228, Flam. Sol. 1, H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H318, Eye Dam. 1, H332, Acute Tox. 4 inh., H335, STOT SE 3, H412, Aquatic Chronic 3
 Chemical Formula: C₁₂H₂₅NaO₄S
 Synonyms (de): Natriumlaurylsulfat
 REACH Reg. No.: 01-2119489461-32-xxxx
 EC No.: 205-788-1
 Concentration: 1 - <2,5 %
 acc. GHS: The criteria for classification are not fulfilled.



Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740966.250
 Printing Date: 04.04.2023

NucleoSpin TriPrep (250)
 Date of Issue: 27.02.2023

Page: 7/21
 Version: 2.2.7.6

25 mL RA3

Substance name: *chemicals/mixture until 1%*
 CAS No.: -

Substance rating: No criteria for classification or naming of chemical is not required.
 Concentration: 0,1 - <1 %
 acc. GHS: The criteria for classification are not fulfilled.

12 mL DNA Wash

Substance name: *chemicals/mixture until 1%*
 CAS No.: -

Substance rating: No criteria for classification or naming of chemical is not required.
 Concentration: 0,1 - <1 %
 acc. GHS: The criteria for classification are not fulfilled.

12 mL DNA Elute

Substance name: *chemicals/mixture until 1%*
 CAS No.: -

Substance rating: No criteria for classification or naming of chemical is not required.
 Concentration: 0,1 - <1 %
 acc. GHS: The criteria for classification are not fulfilled.

30 mL Buffer for rDNase

Substance name: *chemicals/mixture until 2%*
 CAS No.: -

Substance rating: No criteria for classification or naming of chemical is not required.
 Concentration: 1 - <2 %
 acc. GHS: The criteria for classification are not fulfilled.

125 mL RP1

Substance name: *guanidinium thiocyanate*
 CAS No.: 593-84-0

Substance rating: H302, Acute Tox. 4 oral, H312, Acute Tox. 4 derm., H314, Skin Corr. 1C, H332, Acute Tox. 4 inh., H412, Aquatic Chronic 3
 Chemical Formula: C₂H₆N₄S
 Synonyms (de): Guanidiniumrhodanid
 REACH Reg. No.: 01-2120735072-65-0001
 EC No.: 209-812-1
 Concentration: 45 - <60 %
 acc. GHS: H302, Acute Tox. 4 oral, H412, Aquatic Chronic 3

Indice No.: 615-004-00-3

60 mL RNase-free H₂O

Substance name: *water*
 CAS No.: 7732-18-5

Substance rating: No criteria for classification or naming of chemical is not required.
 Chemical Formula: H₂O
 REACH Reg. No.: exempt, Annex IV
 EC No.: 231-791-2
 Concentration: 90 - <100 %
 acc. 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 Hazard and Precaution phrases: see section 16.2.



Safety Data Sheet

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 Printing Date: 04.04.2023

NucleoSpin TriPrep (250)
 Date of Issue: 27.02.2023

Page: 8/21
 Version: 2.2.7.6

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

4.1.2 After EYE Contact

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

4.1.3 After INHALATION of Vapors

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

4.1.4 After ORAL Intake

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

4.2 Most important Symptoms and Effects, both acute and delayed

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Chronic effects: Repeated contact, even in small amounts, can lead to sensitization.
 Causes serious eye irritation.

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. After EYE CONTACT rinse immediately with plenty of water for a long time. Eyelid convulsion measures. Name the corrosive substance. Further treatment must to be carried out by an eye specialist. Inform patient respectively further measures and the possibility of long-term damages. ---

SECTION 5: Fire-Fighting Measures

5.1 Extinguishable Media

5.1.1 Suitable extinguishing media

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

5.1.2 Unsuitable extinguishing media

data not available

5.2 Special Hazards arising from the Substance or Mixture

WARNING: Flammable. May form explosive vapor-air mixtures. Formation of hazardous and caustic vapor-air mixtures possible.

5.3 Advice for Firefighters

No, for listed product. Product package burns like paper or plastic. Spray any vapours released with water. Retent fire water. Use only acid-resistant safety equipment.

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

5.4 Additional Information

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

SECTION 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedure

Do not breathe vapors. Wear suitable protective gloves (see 8.2.2). Wear eye protection. 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



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Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740966.250	NucleoSpin TriPrep (250)	Page: 9/21
Printing Date: 04.04.2023	Date of Issue: 27.02.2023	Version: 2.2.7.6

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

PBT: not applicable

vPvB: not applicable

6.3 Methods and Material for Containment and Cleaning up

Bind any escaping liquid with inert absorbent.

And dispose in accordance to local regulations for the disposal of hazards. Clean any contaminated equipment and floors with plenty of water. Collect small amounts of leaked liquid and flush with water into sewer.

6.4 Reference to other Sections

see information in section 5.4,7,8 and 13

SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling

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

7.2 Conditions for Safe Storage, including any Incompatibilities

The original product package allows a safe storage. Storage class (German chemical industry): see chapter 12.1

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

107 mg TCEP

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

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

80 mL RA2

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

DNEL: [inh] 1092 µg/m³

DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): 42.4 µg/L

PNEC = Predicted No Effect Concentration

NIOSH: 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: not listed

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

DNEL: [derm] 343 mg/kg; [inh] 950 mg/m³

DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): 0.96 mg/L

PNEC = Predicted No Effect Concentration

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: 1000 ppm / 1900 mg/m³

200 U rDNase

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

225 mL PP

Chemical: *zinc chloride* CAS No.: 7646-85-7

DNEL: 1.3 Zn, inh mg/m³

DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): 0.0206 mg/L

PNEC = Predicted No Effect Concentration

NIOSH: 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: not listed



Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740966.250	NucleoSpin TriPrep (250)	Page: 10/21
Printing Date: 04.04.2023	Date of Issue: 27.02.2023	Version: 2.2.7.6

40 mL PSB

Chemical: <i>indicator dye(s)</i>	CAS No.: -
Chemical: <i>glycerole</i>	CAS No.: 56-81-5
DNEL: [inh] 56 mg/m ³ DNEL = Derived No-Effect Level (for workers)	
PNEC (fresh water): 0.885 mg/L PNEC = Predicted No Effect Concentration	
Chemical: <i>dodecyl sulfate, sodium salt</i>	CAS No.: 151-21-3
NIOSH: 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: not listed	

25 mL RA3

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

12 mL DNA Wash

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

12 mL DNA Elute

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

30 mL Buffer for rDNase

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

125 mL RP1

Chemical: <i>guanidinium thiocyanate</i>	CAS No.: 593-84-0
DNEL: [inh] 1092 µg/m ³ DNEL = Derived No-Effect Level (for workers)	
PNEC (fresh water): 42.4 µg/L PNEC = Predicted No Effect Concentration	
NIOSH: 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: not listed	

60 mL RNase-free H₂O

Chemical: <i>water</i>	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 vapor/dust respirator, class A/AX. No additional recommendations.

8.2.2 Skin protection / Hand protection

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

8.2.3 Eye / Face Protection

Yes, Splash Goggles.

8.2.4 Skin Protection

Recommended to avoid contamination with these hazards.

8.2.5 Hygiene Measures

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.

8.2.6 Thermal hazards



Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740966.250
 Printing Date: 04.04.2023

NucleoSpin TriPrep (250)
 Date of Issue: 27.02.2023

Page: 11/21
 Version: 2.2.7.6

data not available

8.3 Limitation and monitoring of environmental exposure

Do not release product into environment.

SECTION 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

107 mg TCEP

a) State of aggregation:	solid (lyophilized)
b) Color:	colorless
c) Odor:	penetrative
d) Melting Point:	data not available
e) Boiling Point:	data not available
f) Flammability:	data not available
g) Explosive Limits (lower / upper):	data not available
h) Flash Point:	data not available
i) Autoignition Temperature:	data not available
j) Decomposition Temperature:	data not available
k) pH Value:	6.5-7
l) Kinematic Viscosity:	data not available
m) Soluble in Water:	data not available
n) Partition Coefficient (o/w) :	data not available
o) Vapor Pressure (68°F):	data not available
p) Specific Gravity:	data not available
q) Relative Vapor Density (air=1) :	data not available
r) Particle Size:	data not available

80 mL RA2

a) State of aggregation:	liquid
b) Color:	colorless
c) Odor:	alcoholic
d) Melting Point:	data not available
e) Boiling Point:	data not available
f) Flammability:	data not available
g) Explosive Limits (lower / upper):	data not available
h) Flash Point:	28 °C
i) Autoignition Temperature:	data not available
j) Decomposition Temperature:	data not available
k) pH Value:	7.0-7.5
l) Kinematic Viscosity:	data not available
m) Soluble in Water:	data not available
n) Partition Coefficient (o/w) :	data not available
o) Vapor Pressure (68°F):	data not available
p) Specific Gravity:	1.03 g/cm ³
q) Relative Vapor Density (air=1) :	data not available
r) Particle Size:	data not available

200 U rDNase

a) State of aggregation:	solid (lyophilized)
b) Color:	white
c) Odor:	odorless
d) Melting Point:	data not available
e) Boiling Point:	data not available
f) Flammability:	data not available
g) Explosive Limits (lower / upper):	data not available
h) Flash Point:	data not available
i) Autoignition Temperature:	data not available
j) Decomposition Temperature:	data not available
k) pH Value:	data not available
l) Kinematic Viscosity:	data not available
m) Soluble in Water:	data not available
n) Partition Coefficient (o/w) :	data not available
o) Vapor Pressure (68°F):	data not available
p) Specific Gravity:	data not available



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Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740966.250
 Printing Date: 04.04.2023

NucleoSpin TriPrep (250)
 Date of Issue: 27.02.2023

Page: 12/21
 Version: 2.2.7.6

q) Relative Vapor Density (air=1) : data not available
 r) Particle Size: data not available

225 mL PP

a) State of aggregation: liquid
 b) Color: colorless
 c) Odor: odorless
 d) Melting Point: data not available
 e) Boiling Point: data not available
 f) Flammability: data not available
 g) Explosive Limits (lower / upper): data not available
 h) Flash Point: data not available
 i) Autoignition Temperature: data not available
 j) Decomposition Temperature: data not available
 k) pH Value: 3.5-4.5
 l) Kinematic Viscosity: data not available
 m) Soluble in Water: data not available
 n) Partition Coefficient (o/w) : data not available
 o) Vapor Pressure (68°F): data not available
 p) Specific Gravity: 1.01 g/cm³
 q) Relative Vapor Density (air=1) : data not available
 r) Particle Size: data not available

40 mL PSB

a) State of aggregation: liquid
 b) Color: green
 c) Odor: odorless
 d) Melting Point: data not available
 e) Boiling Point: data not available
 f) Flammability: data not available
 g) Explosive Limits (lower / upper): data not available
 h) Flash Point: data not available
 i) Autoignition Temperature: data not available
 j) Decomposition Temperature: data not available
 k) pH Value: 6.5-7
 l) Kinematic Viscosity: data not available
 m) Soluble in Water: data not available
 n) Partition Coefficient (o/w) : data not available
 o) Vapor Pressure (68°F): data not available
 p) Specific Gravity: 1.06 g/cm³
 q) Relative Vapor Density (air=1) : data not available
 r) Particle Size: data not available

25 mL RA3

a) State of aggregation: liquid
 b) Color: colorless
 c) Odor: odorless
 d) Melting Point: data not available
 e) Boiling Point: data not available
 f) Flammability: data not available
 g) Explosive Limits (lower / upper): data not available
 h) Flash Point: data not available
 i) Autoignition Temperature: data not available
 j) Decomposition Temperature: data not available
 k) pH Value: 7-8
 l) Kinematic Viscosity: data not available
 m) Soluble in Water: data not available
 n) Partition Coefficient (o/w) : data not available
 o) Vapor Pressure (68°F): data not available
 p) Specific Gravity: 1.00 g/cm³
 q) Relative Vapor Density (air=1) : data not available
 r) Particle Size: data not available



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NucleoSpin TriPrep (250)
 Date of Issue: 27.02.2023

Page: 13/21
 Version: 2.2.7.6

12 mL DNA Wash

a) State of aggregation:	liquid
b) Color:	colorless
c) Odor:	odorless
d) Melting Point:	data not available
e) Boiling Point:	data not available
f) Flammability:	data not available
g) Explosive Limits (lower / upper):	data not available
h) Flash Point:	data not available
i) Autoignition Temperature:	data not available
j) Decomposition Temperature:	data not available
k) pH Value:	6.5-7.5
l) Kinematic Viscosity:	data not available
m) Soluble in Water:	data not available
n) Partition Coefficient (o/w) :	data not available
o) Vapor Pressure (68°F):	data not available
p) Specific Gravity:	1.0 g/cm ³
q) Relative Vapor Density (air=1) :	data not available
r) Particle Size:	data not available

12 mL DNA Elute

a) State of aggregation:	liquid
b) Color:	colorless
c) Odor:	odorless
d) Melting Point:	data not available
e) Boiling Point:	data not available
f) Flammability:	data not available
g) Explosive Limits (lower / upper):	data not available
h) Flash Point:	data not available
i) Autoignition Temperature:	data not available
j) Decomposition Temperature:	data not available
k) pH Value:	6.5-7.5
l) Kinematic Viscosity:	data not available
m) Soluble in Water:	data not available
n) Partition Coefficient (o/w) :	data not available
o) Vapor Pressure (68°F):	data not available
p) Specific Gravity:	1.0 g/cm ³
q) Relative Vapor Density (air=1) :	data not available
r) Particle Size:	data not available

30 mL Buffer for rDNase

a) State of aggregation:	liquid
b) Color:	colorless
c) Odor:	odorless
d) Melting Point:	data not available
e) Boiling Point:	data not available
f) Flammability:	data not available
g) Explosive Limits (lower / upper):	data not available
h) Flash Point:	data not available
i) Autoignition Temperature:	data not available
j) Decomposition Temperature:	data not available
k) pH Value:	6.5-7.5
l) Kinematic Viscosity:	data not available
m) Soluble in Water:	data not available
n) Partition Coefficient (o/w) :	data not available
o) Vapor Pressure (68°F):	data not available
p) Specific Gravity:	1.01 g/cm ³
q) Relative Vapor Density (air=1) :	data not available
r) Particle Size:	data not available

125 mL RP1

a) State of aggregation:	liquid
b) Color:	colorless
c) Odor:	odorless
d) Melting Point:	data not available



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REF: 740966.250
 Printing Date: 04.04.2023

NucleoSpin TriPrep (250)
 Date of Issue: 27.02.2023

Page: 14/21
 Version: 2.2.7.6

e) Boiling Point:	data not available
f) Flammability:	data not available
g) Explosive Limits (lower / upper):	data not available
h) Flash Point:	data not available
i) Autoignition Temperature:	data not available
j) Decomposition Temperature:	data not available
k) pH Value:	6.5-7.5
l) Kinematic Viscosity:	data not available
m) Soluble in Water:	data not available
n) Partition Coefficient (o/w) :	data not available
o) Vapor Pressure (68°F):	data not available
p) Specific Gravity:	1.13 g/cm ³
q) Relative Vapor Density (air=1) :	data not available
r) Particle Size:	data not available

60 mL RNase-free H₂O

a) State of aggregation:	liquid
b) Color:	colorless
c) Odor:	odorless
d) Melting Point:	data not available
e) Boiling Point:	data not available
f) Flammability:	data not available
g) Explosive Limits (lower / upper):	data not available
h) Flash Point:	data not available
i) Autoignition Temperature:	data not available
j) Decomposition Temperature:	data not available
k) pH Value:	6-8
l) Kinematic Viscosity:	data not available
m) Soluble in Water:	data not available
n) Partition Coefficient (o/w) :	data not available
o) Vapor Pressure (68°F):	data not available
p) Specific Gravity:	1.0 g/cm ³
q) Relative Vapor Density (air=1) :	data not available
r) Particle Size:	data not available

9.2 Further Information

No data is available for the other parameters for the mixtures, since no registration and no chemical safety report is required.
Properties relevant to substance groups

SECTION 10: Stability and Reactivity

10.1 Reactivity

No further data available.

10.2 Chemical Stability

no known instability.

10.3 Possibility of Hazardous Reactions

Can form very reactive substances with oxidizing agents. Possibility: &H:EUH031& No further data available.

10.4 Conditions to avoid

No more required.

10.5 Incompatible Materials

10.6 Hazardous Decomposition Products

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



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SDS acc. Hazard Communication Standard

REF: 740966.250
 Printing Date: 04.04.2023

NucleoSpin TriPrep (250)
 Date of Issue: 27.02.2023

Page: 15/21
 Version: 2.2.7.6

SECTION 11: Toxicological Information

11.1 Information on Toxicological Effects

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

107 mg TCEP

Chemical: *tris-(2-carboxyethyl)phosphine hydrochloride, TCEP(•HCl)* CAS No.: 51805-45-9
 TSCA Inventory: LVE
 LD50 orl rat : 3500 mg/kg
 LD50 scu rat : > 3000 mg/kg

Chemical: *inorganic salts, declaration not necessary* CAS No.: -
 TSCA Inventory: all listed

80 mL RA2

Chemical: *guanidinium thiocyanate* CAS No.: 593-84-0
 TSCA Inventory: listed California Prop. 65 List: not listed
 Canada CEPA 1999: DSL yes
 LD50 orl rat : 593 mg/kg
 LC50 ihl rat : 5,319 mg/L/4H

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

Chemical: *ethanol* CAS No.: 64-17-5
 TSCA Inventory: listed California Prop. 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
 Canada CEPA 1999: DSL yes
 LD50 orl rat : 6200 mg/kg
 LC_{Low} ihl gpg : 21,900 mg/L
 LC_{Low} orl hmn : 1400 mg/kg
 LC50 ihl mus : 123,4 mg/L/4H
 LC50 ihl rat : 115,9-133,8 mg/L/4H
 LD50 orl mus : 3450 mg/kg

200 U rDNase

Chemical: *rDNase* CAS No.: 9003-98-9
 TSCA Inventory: listed

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

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

225 mL PP

Chemical: *zinc chloride* CAS No.: 7646-85-7
 TSCA Inventory: listed California Prop. 65 List: not listed
 Canada CEPA 1999: DSL Yes
 LD50 orl rat : 350 mg/kg
 LD50 orl mus : 329 mg/kg

40 mL PSB

Chemical: *indicator dye(s)* CAS No.: -
 TSCA Inventory: all listed, <1%

Chemical: *glycerole* CAS No.: 56-81-8

TSCA Inventory: listed (1,2,3-Propanetriol)
 Exposure Routes: inhalation, skin and/or eye contact
 Target Organs: Eyes, skin, respiratory system, kidneys
 Symptoms: irritation eyes, skin, respiratory system; headache, nausea, vomiting; kidney injury
 LD50 orl rat : 12600 mg/kg

Chemical: *dodecyl sulfate, sodium salt* CAS No.: 151-21-3

TSCA Inventory: listed California Prop. 65 List: not listed
 Canada CEPA 1999: DSL yes
 LD50 orl rat : 1288 mg/kg
 LC50 ihl rat : 3,900 mg/L/1H



Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740966.250	NucleoSpin TriPrep (250)	Page: 16/21
Printing Date: 04.04.2023	Date of Issue: 27.02.2023	Version: 2.2.7.6

25 mL RA3

Chemical: *chemicals/mixture until 1%* CAS No.: -
 TSCA Inventory: *all listed, <1%*

12 mL DNA Wash

Chemical: *chemicals/mixture until 1%* CAS No.: -
 TSCA Inventory: *all listed, <1%*

12 mL DNA Elute

Chemical: *chemicals/mixture until 1%* CAS No.: -
 TSCA Inventory: *all listed, <1%*

30 mL Buffer for rDNase

Chemical: *chemicals/mixture until 2%* CAS No.: -
 TSCA Inventory: *all listed, <2%*

125 mL RP1

Chemical: *guanidinium thiocyanate* CAS No.: 593-84-0
 TSCA Inventory: *listed* California Prop. 65 List: not listed
 Canada CEPA 1999: *DSL yes*
 LD50 orl rat : *593 mg/kg*
 LC50 ihl rat : *5,319 mg/L/4H*
 Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.

60 mL RNase-free H₂O

Chemical: *water* CAS No.: 7732-18-5
 TSCA Inventory: *listed*
 LD50 orl rat : *> 90000 mg/kg*

11.2 Other Hazards

Possible endocrine disrupting effects

data not available

Other Information

no additional data available

SECTION 12: Ecological Information

12.1 Toxicity

Following information is valid for pure chemicals.

107 mg TCEP

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

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

80 mL RA2

Chemical: *guanidinium thiocyanate* CAS No.: 593-84-0
 Harmful to aquatic life with long lasting effects. Avoid contact of chemical/mixture to environment.
 Environmental hazards must not be labelled with P phrases until 125 mL (EU-CLP 1272/2008 Annex I - 1.5.2).

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

LC50 fish/96h : *[4d] 89.1 mg/L*
 EC50 daphnia/48h : *42.4 mg/L*
 IC50 scenedesmus quadricauda/72h : *130 mg/L*
 EC10 pseudomonas putita/16h : *[10d] 200 mg/L*
 Partition Coefficient (o/w) : *-1,11 pH 5.1*

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

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

LC50 daphnia magna/48h : *>100 g/L*
 LC50 pimephales promelas/96h : *13.4-15.1 g/L*
 LC50 leuciscus idus/96h : *[48h] 8.14 g/L*
 LC50 fish/96h : *13 g/L*
 EC50 daphnia/48h : *9.3-14.2 g/L*



Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740966.250	NucleoSpin TriPrep (250)	Page: 17/21
Printing Date: 04.04.2023	Date of Issue: 27.02.2023	Version: 2.2.7.6

IC50 *scenedesmus quadricauda*/72h : [7d] 5000 mg/L
 EC10 *pseudomonas putida*/16h : [EC5] 6500 mg/L
 Partition Coefficient (o/w) : -0,31

200 U rDNase

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

225 mL PP

Chemical: *zinc chloride* CAS No.: 7646-85-7

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

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

PNEC (fresh water) : 0.0206 mg/L

PNEC = Predicted No Effect Concentration

LC50 fish/96h : 38 mg/L

EC50 daphnia/48h : 1.24 mg/L

EC50 *pseudokirchneriella subcapitata*/72h : 0.05 mg/L

40 mL PSB

Chemical: *indicator dye(s)* CAS No.: -

Chemical: *glycerole* CAS No.: 56-81-5

PNEC (fresh water) : 0.885 mg/L

PNEC = Predicted No Effect Concentration

LC50 fish/96h : >5000_{24h} mg/L

EC50 daphnia/48h : >10_{24h} g/L

IC50 *scenedesmus quadricauda*/72h : IC5_{7d} >10 g/L

EC10 *pseudomonas putida*/16h : EC5: >10 g/L

Partition Coefficient (o/w) : -1,76

Chemical: *dodecyl sulfate, sodium salt* CAS No.: 151-21-3

LC50 daphnia magna/48h : 6.3 mg/L

LC50 fish/96h : 1.31-22.5 mg/L

Partition Coefficient (o/w) : 1,6

25 mL RA3

Chemical: *chemicals/mixture until 1%* CAS No.: -

12 mL DNA Wash

Chemical: *chemicals/mixture until 1%* CAS No.: -

12 mL DNA Elute

Chemical: *chemicals/mixture until 1%* CAS No.: -

30 mL Buffer for rDNase

Chemical: *chemicals/mixture until 2%* CAS No.: -

125 mL RP1

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

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

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

PNEC (fresh water) : 42.4 µg/L

PNEC = Predicted No Effect Concentration

LC50 fish/96h : [4d] 89.1 mg/L

EC50 daphnia/48h : 42.4 mg/L

IC50 *scenedesmus quadricauda*/72h : 130 mg/L

EC10 *pseudomonas putida*/16h : [10d] 200 mg/L

Partition Coefficient (o/w) : -1,11 pH 5.1

60 mL RNase-free H₂O

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



Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740966.250
Printing Date: 04.04.2023

NucleoSpin TriPrep (250)
Date of Issue: 27.02.2023

Page: 18/21
Version: 2.2.7.6

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

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

12.6 Endocrine disrupting properties

data not available

12.7 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 (RCRA Code D002/D003, EU 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. UN/NA: 1993 14.2. Proper Shipping Name: Flammable liquid, n.o.s. (ethanol mixture)

14.3. Hazard Class: 3 14.4. Packing Group: III

Transportation by Road

Classification code: F1

Limited Quantity: 5 L

Excepted Quantity: E 1

Air Transportation

Limited Quantity: LQ 7

Excepted Quantity: E 1

PAX: 355

CAO: 366

Maritime Transport

EmS: F-E, S-E

Tunnel restriction code: D/E

Special instructions: 640E

max. weight PAX: 60 L

max. weight CAO: 220 L

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 Carriage of bulk cargo by sea in accordance with IMO instruments

Not applicable.

SECTION 15: Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

U.S. Federal Regulations

OSHA "A Guide to The Globally Harmonized System of Classification and Labelling of Chemicals (GHS)"

<https://www.osha.gov/dsg/hazcom/ghs.html>

29 CFR 1910.1200 Hazard communication.

NIOSH Pocket Guide to Chemical Hazards

NIOSH Workplace Safety & Health Topics

TSCA Inventory

U.S. State Regulations

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

Canada

Canada CEPA 1999 - Domestic Substances List (DSL), List of Toxic Substances (Schedule 1)



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Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740966.250
Printing Date: 04.04.2023

NucleoSpin TriPrep (250)
Date of Issue: 27.02.2023

Page: 19/21
Version: 2.2.7.6

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

15.2 Chemical Safety Assessment

not necessary for these small amounts

SECTION 16: Other Information

16.1 Changes compared to the last version

Between versions 2.2.7.6 and 2.2.2.2 following changes were applied: - 5 composition data corrected - 4 substance data corrected

16.2 List of Hazard and Precaution Phrases

16.2.1 List of relevant H Phrases

H226	Flammable liquid and vapor.
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.

16.2.2 List of relevant P Phrases

P261sh	Avoid breathing dust/vapors.
P273	Avoid release to the environment.
P280sh	Wear protective gloves/eye protection.
P342+311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

16.3 Recommended Restriction on Use

Only for Professional User.
Look about employee restrictions for young people!
Look about employee restrictions for pregnant women and nursing women!
An individual package of this product or test kit has a moderate hazardous potential.

16.4 Sources of Key Data

KÜHN, BIRETT, Leaflets on hazardous materials, 2021
Directive 1999/92/EG Minimum requirements to improve the safety and health protection of workers at risk from potentially explosive atmospheres
SUVA .CH, limit values in the air at work 2009, revised on 01/2009
Regulation 790/2009/EU, adaptation of Regulation 1272/2008/EU to technical and scientific progress (1st ATP)
Regulation 453/2010/EU, adaptation of the REACH regulation 1907/2006/EG
TRGS 907, German technical rules for listing substances and causes of sensitization, updated November 2011
Regulation 487/2013/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (4th ATP)
Regulation 1221/2015/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (7th ATP)
Regulation 776/2017/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (10th ATP)

Regulation 669/2018/EU, adaptation of Regulation 1272/2008/EC to technical and scientific progressText (11th ATP)
Regulation 1480/2018/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (13th ATP)
Regulation 521/2019/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (12th ATP)
TRGS 900, German rules of technology on limit values in the air at work, as of 03/2019
Regulation 217/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (14th ATP)
Regulation 878/2020/EU, adaptation of Annex II of the REACH regulation 1907/2006/EG
Regulation 1182/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (15th ATP)
Regulation 643/2021/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (16th ATP)
Regulation 849/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (17th ATP)

revisions/updates

Reason for revision: 2014-02 Corrected structure of the sections according to Regulation 453/2010/EU, if necessary
2014-04 adjustment according Regulation 487/2013/EU
2016-03 adjustment according Regulation 1221/2015/EU
2017-08 adjustment according the Ordinance on Ethanol Denaturation 2016/1867/EU
2017-11 adjustment according the ECHA registration dossier
2022-11 adjustment according Regulation 878/2020/EU

16.5 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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REF: 740966.250
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Page: 20/21
 Version: 2.2.7.6

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16.6 Legend / Abbreviations

- acc: according
- ADR: Convention concerning the International Carriage of Dangerous Goods by Road
- Act: acute
- BAT: biological workplace tolerance value
- CAO: Cargo Aircraft Only
- Carc: carcinogen
- CAS: Chemical Abstracts Service
- CLP: Classification, Labelling and Packaging regulation
- CMR: carcinogen, mutagen, reproduction toxic
- Corr: corrosive
- COD: chemical oxygen demand
- CSCL: Chemical Substance Control Law (Jp)
- Dam: damage
- DNEL: Derived No-Effect Level (for workers)
- derm: dermal
- dog: dog
- EC10: Concentration causing a toxic effect in 10% of the test organisms
- EC: European Community
- EC-Nr: Substance number of the EC substance inventory
- EmS: Guide to accident management measures on ships
- EU: European Union
- fish: fish (not specified)
- GHS: Global Harmonized System of Classification and Labeling of Chemicals
- gpg: guinea pig
- ICAO: International Civil Aviation Organization
- ihl: inhaled
- IMDG: International Maritime Dangerous Goods Code
- intrav: intravenous
- ipt: intraperitoneal
- ISHL: Industrial Safety and Health Law (Jp)
- LC50: letale concentration 50%
- LD50: letale dosis 50%
- leuciscus idus: fisch, ide, orfe
- MAK: maximum workplace concentration
- Met: Metall
- mus: mouse
- Muta: mutagen
- NIOSH: National Institute for Occupational Safety and Health (US)
- NRD: Non-rapidly degradable
- onchorhynchus mykiss: fisch, rainbow trout
- orl: oral
- OSHA: Occupational Safety and Health Administration
- PAX: transport on passenger planes allowed
- PBT: persistent, bioaccumulating, toxic substance
- pH: pH value
- pimephales promelas: fisch, fathead minnow
- PNEC: Predicted No Effected Concentration
- PROC 15: Process category 'for laboratory use'
- PRTR: Law for PRTR and Promotion of Chemical Management (Jp)
- PVC: polyvinyl chloride
- quail: bird, quail
- rat: rat
- rbt: rabbit
- RD: rapidly degradable
- RE: repeated
- REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
- REF: item number, reference number
- Reg.No.: rRegistration number
- Repr: harmful to reproduction
- Resp: respiratory
- scu: sub cutan
- RIP: REACH Implementations Projects
- SDS: safety data sheet



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Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740966.250	NucleoSpin TriPrep (250)	Page: 21/21
Printing Date: 04.04.2023	Date of Issue: 27.02.2023	Version: 2.2.7.6

- Sens: sensitisation
- STEL: short term exposure limit
- STOT: Specific Target Organ Toxicity
- SVHC: Substance of Very High Concern
- t/a: tons per year
- TCCA: Toxic Chemicals Control Act (S. Korea)
- Tox: toxic
- TSCA: The Toxic Substances Control Act (US)
- TWA: time weighted average
- TRGS: technical regulations (DE)
- vPvB: very persistent, very bioaccumulating substance

16.7 Training Advice

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



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