

Safety Data Sheet

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

REF: 740966.50

NucleoSpin TriPrep (50)

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Printing date: 15.11.2021

Date of issue: 12.04.2021

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

1.1 Product identifier

REF 740966.50
Product name 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 H₂O

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
Valenciennr Str. 11, 52355 Düren, GERMANY
Tel.: +49 2421 969 0

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

1.4 Emergency telephone number

Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service.

DE: Gemeinsames Giftinformationszentrum (GGIZ)

99089 Erfurt tel. +49 361 730 730

You find our current versions of SDS (22 languages) in Internet:

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

SECTION 2: Hazard identification

2.0 Classification of the complete product



GHS02



GHS07



GHS08

Signal word

DANGER

Hazard identification

Hazard classes/categories

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

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2.1 Classification of the substance 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



GHS02

GHS07

Signal word

WARNING

Hazard identification

Hazard classes/categories

H226

Flam. Liq. 3

H302

Acute Tox. 4 oral

H412

Aquatic Chronic 3

12 mL RA3

Signal word

Do not need labelling as hazardous

-

No hazard class

25 mL RP1

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GHS07

Signal word

WARNING

Hazard identification

Hazard classes/categories

H302

Acute Tox. 4 oral

H412

Aquatic Chronic 3

107 mg TCEP



GHS07

Signal word

WARNING

Hazard identification

Hazard classes/categories

H315

Skin Irrit. 2

H319

Eye Irrit. 2

200 U, Size D, rDNase



GHS08

Signal word

DANGER

Hazard identification

Hazard classes/categories

H334

Resp. Sens. 1

13 mL RNase-free H₂O

Signal word

Do not need labelling as hazardous

-

No hazard class

2.2 Label elements

According **CLP directive** inner packages must be only labelled with GHS symbol(s) and product identifier(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: -

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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



GHS02



GHS07

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



GHS07

Signal word: WARNING

H412
Harmful to aquatic life with long lasting effects.

107 mg TCEP



GHS07

Signal word: WARNING

200 U, Size D, rDNase



GHS08

Signal word: DANGER

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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 H₂O

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: chemicals/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.

12 mL DNA Wash

Chemical: chemicals/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: chemicals/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

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Chemical: *zinc chloride* CAS No.: 7646-85-7
Classification: H302, Acute Tox. 4 oral, H314, Skin Corr. 1B, H400, Aquatic Acute 1, H410, Aquatic Chronic 1
Formula: $ZnCl_2$
TSCA Inventory: listed
REACH Reg. No.: 01-2119472431-44-xxxx
EC No.: 231-592-0 Indice No.: 030-003-00-2
RTECS: ZH1400000 MFCD: 00011295
KE No.: KE-35535, >25% Toxic 97-1-91
Concentration: 1 - <2.085 % Correlation factor: x 0.48 (= %Zn)
The classification refers to weight percent of the metal (according to CLP Regulation 2008/1272/EC Annex VI, 1.1.3.2 Note 1)
acc. CLP (GHS): H412, Aquatic Chronic 3

7,5 mL PSB

Chemical: *dodecyl sulfate, sodium salt* CAS No.: 151-21-3
Classification: 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
Formula: $C_{12}H_{25}NaO_4S$
Pseudonym: sodium lauryl sulfate, sulfuric acid monododecyl ester sodium salt
TSCA Inventory: listed
REACH Reg. No.: 01-2119489461-32-xxxx
EC No.: 205-788-1
RTECS: WT1050000 MFCD: 00036175
KE No.: KE-21884
Concentration: 1 - <2.5 %
acc. CLP (GHS): The criteria for classification are not fulfilled.

Chemical: *glycerole* CAS No.: 56-81-5
Classification: No criteria for classification or naming of chemical not required.
Formula: $C_3H_8O_3$
Pseudonym: glycerin, 1,2,3-propanetriol
TSCA Inventory: listed (1,2,3-Propanetriol)
REACH Reg. No.: 01-2119471987-18-xxxx
EC No.: 200-289-5 Indice No.: n/a
RTECS: MA8050000 MFCD: 00004722
KE No.: KE-29297
Concentration: 10 - <50 %
acc. CLP (GHS): The criteria for classification are not fulfilled.

Chemical: *indicator dye(s)* CAS No.: -
Classification: No criteria for classification or naming of chemical not required.
TSCA Inventory: all listed, <1%
Concentration: 0.01 - <0.1 %
acc. CLP (GHS): The criteria for classification are not fulfilled.

15 mL RA2

Chemical: *guanidinium thiocyanate* CAS No.: 593-84-0
Classification: H302, Acute Tox. 4 oral, H312, Acute Tox. 4 derm., H314, Skin Corr. 1B, H332, Acute Tox. 4 inh., H412, Aquatic Chronic 3
Formula: $C_2H_6N_4S$
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.: not listed
Concentration: 30 - <45 %
acc. CLP (GHS): H302, Acute Tox. 4 oral, H412, Aquatic Chronic 3

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Chemical:	<i>ethanol</i> (denatured with 1%IPA/1%MEK, acc.2016/1867/EU)	CAS No.:	64-17-5
Classification:	H225, Flam. Liq. 2		
Formula:	C ₂ H ₆ O; C ₂ H ₅ OH		
Pseudonym:	ethyl alcohol, methylated spirit		
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:	20 - <35 %		
acc. CLP (GHS):	H226, Flam. Liq. 3		

12 mL RA3

Chemical:	<i>chemicals/mixture < 1%</i>	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.		

25 mL RP1

Chemical:	<i>guanidinium thiocyanate</i>	CAS No.:	593-84-0
Classification:	H302, Acute Tox. 4 oral, H312, Acute Tox. 4 derm., H314, Skin Corr. 1B, H332, Acute Tox. 4 inh., H412, Aquatic Chronic 3		
Formula:	C ₂ H ₆ N ₄ S		
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.:	not listed		
Concentration:	45 - <60 %		
acc. CLP (GHS):	H302, Acute Tox. 4 oral, H412, Aquatic Chronic 3		

107 mg TCEP

Chemical:	<i>tris-(2-carboxyethyl)phosphine hydrochloride, TCEP(•HCl)</i>	CAS No.:	51805-45-9
Classification:	H315, Skin Irrit. 2, H319, Eye Irrit. 2		
Formula:	C ₉ H ₁₆ ClO ₆ P		
Pseudonym:	TCEP•HCl		
TSCA Inventory:	LVE	MFCD:	00145469
KE No.:	not listed		
Concentration:	70 - <100 %		
acc. CLP (GHS):	H315, Skin Irrit. 2, H319, Eye Irrit. 2		

Chemical:	<i>inorganic salts, declaration not necessary</i>	CAS No.:	-
Classification:	No criteria for classification or naming of chemical not required.		
Pseudonym:	not hazardous		
TSCA Inventory:	all listed		
KE No.:	listed		
Concentration:	25 - <50 %		
acc. CLP (GHS):	The criteria for classification are not fulfilled.		

200 U, Size D, rDNase

Chemical:	<i>rDNase</i>	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:	listed		
EC No.:	232-667-0		
RTECS:	RF0750000		
KE No.:	KE-09612		
Concentration:	90 - <100 %		
acc. CLP (GHS):	H334, Resp. Sens. 1		

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13 mL RNase-free H₂O

Chemical: water

CAS No.: 7732-18-5

Classification:

No criteria for classification or naming of chemical not required.

Formula:

H₂O

TSCA Inventory:

listed

REACH Reg. No.:

exempt, Annex IV

EC No.:

231-791-2

RTECS:

ZC0110000

KE No.:

KE-35400

Concentration:

90 - <100 %

acc. CLP (GHS):

The criteria for classification are not fulfilled.

3.3 Remarks

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

List of H and P phrases: see section 16.1

SECTION 4: First aid measures

4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitation if necessary. If necessary contact medical advice. Take to a doctor, in a raised position if there are breathing difficulties.

4.1.1

After SKIN Contact

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

4.1.2

After EYE Contact

After contact with the eyes rinse thoroughly under running water with the eyelid wide open with eye washing bottle, eye douche or running water (protect intact eye).

4.1.3

After INHALATION of vapours

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

4.1.4

After ORAL Intake

After oral intake lots of water should be drunk after it has been ingested. ---

4.2

Most important symptoms and effects, both acute and delayed

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

4.3

Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

5.1

Extinguishing media

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

5.2

Special hazards arising from the substance or mixture

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

5.3

Advice for firefighters

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

5.4

Additional information

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

not necessary, contains only small amounts of these substances

6.3 Methods and material for containment and cleaning up

Bind any escaping liquid with inert absorbent. And dispose in accordance to local regulations for the disposal of hazardous chemicals. Clean any contaminated equipment and floors with plenty of water. Collect small amounts of leaked liquid and flush with water into drains.

6.4 Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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

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 Elute

Chemical: chemicals/mixture < 1%

CAS No.: -

12 mL DNA Wash

Chemical: chemicals/mixture < 1%

CAS No.: -

7 mL DRB (OEM)

Chemical: chemicals/mixture < 2%

CAS No.: -

45 mL PP

Chemical: zinc chloride

CAS No.: 7646-85-7

DNEL: 1.3Zn, inh mg/m³

DNEL = Derived No-Effect Level (for workers)

PNEC(fresh water): 0.0206 mg/L

PNEC = Predicted No Effect Concentration

SUVA(CH) MAK value: 1 a mg/m³

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

7,5 mL PSB

Chemical: dodecyl sulfate, sodium salt

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

Chemical: glycerole

CAS No.: 56-81-5

DNEL: [inh] 56 mg/m³

DNEL = Derived No-Effect Level (for workers)

PNEC(fresh water): 0.885 mg/L

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PNEC = Predicted No Effect Concentration

TRGS 900 (DE): 200 E mg/m³
E/e respirable

Short-term exposure factor: 2 (I), Y
skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 50 e* mg/m³

Chemical: *indicator dye(s)*

CAS No.: -

15 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

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

Short-term exposure factor: 4 (II), Y
skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 500 ppm / 960 mg/m³

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

OSHA: [TWA] 1000 ppm / 1900 mg/m³

12 mL RA3

Chemical: *chemicals/mixture < 1%*

CAS No.: -

25 mL RP1

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

107 mg TCEP

Chemical: *tris-(2-carboxyethyl)phosphine hydrochloride, TCEP(•HCl)*

CAS No.: 51805-45-9

Chemical: *inorganic salts, declaration not necessary*

CAS No.: -

200 U, Size D, rDNase

Chemical: *rDNase*

CAS No.: 9003-98-9

13 mL RNase-free H₂O

Chemical: *water*

CAS No.: 7732-18-5

8.2 Exposure controls

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

8.2.1 Respiratory protection

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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.

8.2.3

Eye protection

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

8.2.4

Skin protection

Recommended to avoid contamination with these hazards.

8.2.5

Personal hygiene

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

12 mL DNA Elute

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

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pH: 6.5-7

200 U, Size D, rDNase

Appearance: solid (lyoph.)

Colour: white

Odor: odorless

13 mL RNase-free H₂O

Appearance: liquid

Colour: colourless

Odor: odorless

pH:

6-8

Specific gravity:

1.0 g/cm³

9.2 Other information

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

Relevant Properties of Substance Group

SECTION 10: Stability and reactivity

10.1 Reactivity

no further data available.

10.2 Chemical stability

No known instability.

10.3 Possibility of hazardous reactions

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

10.4 Conditions to avoid

Not necessary. ---

10.5 Incompatible materials

Avoid contact with strong acids or alkalines.

10.6 Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

12 mL DNA Elute

Chemical: chemicals/mixture < 1%

CAS No.: -

TSCA Inventory: all listed, <1%

Korea Exist.Chem.Inventory: listed

12 mL DNA Wash

Chemical: chemicals/mixture < 1%

CAS No.: -

TSCA Inventory: all listed, <1%

Korea Exist.Chem.Inventory: listed

7 mL DRB (OEM)

Chemical: chemicals/mixture < 2%

CAS No.: -

TSCA Inventory: all listed, <2%

Korea Exist.Chem.Inventory: listed

45 mL PP

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Chemical: *zinc chloride* CAS No.: 7646-85-7
TSCA Inventory: listed California Proposition 65 List: not listed
Australia NICNAS: not listed Canada CEPA 1999: DSL Yes
Japan CSCL/PRTR: PRTR: $\geq 1,0\%$ Zn class I, Japan PDSCL: Deleterious Substance
Japan ISHL: listed $\geq 1,0\%$ $\geq 0,1\%$, Article 57-2 (SDS required)
South Korea TCCA: not listed
Korea Exist.Chem.Inventory: KE-35535, >25% Toxic 97-1-91
LD50_{orl rat}: 350 mg/kg
LD50_{orl mus}: 329 mg/kg

7,5 mL PSB

Chemical: *dodecyl sulfate, sodium salt* CAS No.: 151-21-3
TSCA Inventory: listed California Proposition 65 List: not listed
Australia NICNAS: not listed Canada CEPA 1999: DSL yes
Japan CSCL/PRTR: PRTR - Class I Designated Chemical Substance, Japan PDSCL: not listed
Japan ISHL: not listed
South Korea TCCA: not listed
Korea Exist.Chem.Inventory: KE-21884
LD50_{orl rat}: 1288 mg/kg
LC50_{inh rat}: 3900_{1h} mg/m³
LD50_{drm rbt}: 10 g/kg

Chemical: *glycerole* CAS No.: 56-81-5
TSCA Inventory: listed (1,2,3-Propanetriol)
Exposure Routes: inhalation, skin and/or eye contact
Target Organs: Eyes, skin, respiratory system, kidneys
Symptoms: irritation eyes, skin, respiratory system; headache, nausea, vomiting; kidney injury
Japan CSCL/PRTR: not listed, Japan PDSCL: not listed
Japan ISHL: not listed
Korea Exist.Chem.Inventory: KE-29297
LD50_{orl rat}: 12.6 g/kg
LD50_{drm rbt}: >18.7 g/kg

TRGS 905 (DE): R_F C

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

15 mL RA2

Chemical: *guanidinium thiocyanate* CAS No.: 593-84-0
TSCA Inventory: listed California Proposition 65 List: not listed
Australia NICNAS: not listed Canada CEPA 1999: DSL yes
Japan CSCL/PRTR: not listed, Japan PDSCL: not listed
Japan ISHL: not listed
South Korea TCCA: not listed
Korea Exist.Chem.Inventory: not listed
LD50_{orl rat}: 593 mg/kg
LC50_{drm rbt}: >2000 mg/m³
LC50_{ihl rat}: [4h] 5.319 mg/L
LD50_{ipr mus}: 300 mg/kg
Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.

Chemical: *ethanol* CAS No.: 64-17-5
TSCA Inventory: listed California Proposition 65 List: not listed
ACGIH: 1000 ppm
Exposure Routes: inhalation, ingestion, skin and/or eye contact
Target Organs: Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system
Symptoms: irritation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; cough;
liver damage; anemia; reproductive, teratogenic
Australia NICNAS: not listed Canada CEPA 1999: DSL yes
Japan CSCL/PRTR: not listed, Japan PDSCL: not listed
Japan ISHL: listed $\geq 0,1\%$ $\geq 0,1\%$, Article 57-2 (SDS required)
South Korea TCCA: not listed
Korea Exist.Chem.Inventory: KE-13217
LD50_{orl rat}: 6200 mg/kg

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LC₅₀Low_{inh} gpg : 21.9 g/m³
 LC₅₀Low_{orl} hmn : 1400 mg/kg
 LC₅₀inh mouse : [4h] 39 g/m³
 LC₅₀inh rat : [10h] 20 g/m³
 LD₅₀drn rbt : 20 000 mg/kg
 LD₅₀oral mouse : 3450 mg/kg

TRGS 905 (DE): K5, M5, R_F C

12 mL RA3

Chemical: chemicals/mixture < 1%
 TSCA Inventory: all listed, <1%
 Korea Exist.Chem.Inventory: listed

CAS No.: -

25 mL RP1

Chemical: guanidinium thiocyanate
 TSCA Inventory: listed
 Australia NICNAS: not listed
 Japan CSCL/PRTR: not listed, Japan PDSCL: not listed
 Japan ISHL: not listed
 South Korea TCCA: not listed
 Korea Exist.Chem.Inventory: not listed
 LD₅₀orl rat : 593 mg/kg
 LC₅₀drn rbt : >2000 mg/m³
 LC₅₀inh rat : [4h] 5.319 mg/L
 LD₅₀ipr mus : 300 mg/kg

CAS No.: 593-84-0

California Proposition 65 List: not listed
 Canada CEPA 1999: DSL yes

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

107 mg TCEP

Chemical: tris-(2-carboxyethyl)phosphine hydrochloride, TCEP(•HCl)
 TSCA Inventory: LVE
 Korea Exist.Chem.Inventory: not listed
 LD₅₀orl rat : 3500 mg/kg
 LD₅₀intrapitoneal rat : 1024 mg/kg
 LD₅₀scu rat : >3000 mg/kg

CAS No.: 51805-45-9

Chemical: inorganic salts, declaration not necessary
 TSCA Inventory: all listed
 Korea Exist.Chem.Inventory: listed

CAS No.: -

200 U, Size D, rDNase

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

CAS No.: 9003-98-9

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.

13 mL RNase-free H₂O

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

CAS No.: 7732-18-5

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SECTION 12: Ecological information

12.1 Toxicity

Following information is valid for pure substances.

12 mL DNA Elute

Chemical: *chemicals/mixture < 1%*
Water hazard class (DE): 1
Storage class (VCI): 12-13

CAS No.: -

12 mL DNA Wash

Chemical: *chemicals/mixture < 1%*
Water hazard class (DE): 1
Storage class (VCI): 12-13

CAS No.: -

7 mL DRB (OEM)

Chemical: *chemicals/mixture < 2%*
Water hazard class (DE): 1
Storage class (VCI): 12-13

CAS No.: -

45 mL PP

Chemical: *zinc chloride* CAS No.: 7646-85-7
Harmful to aquatic life with long lasting effects. Avoid contact of substance/mixture to environment.
Environmental hazards must not be labelled with P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).
PNEC(fresh water) : 0.0206 mg/L
PNEC = Predicted No Effected Concentration
LC50_{fish/96h} : 38 mg/L
EC50_{daphnia/48h} : 1.24 mg/L
EC50_{pseudokirchneriella subcapitata/72h} : 0.05 mg/L
Water hazard class (DE): 3 WGK No.: 0207
Storage class (VCI): 11

7,5 mL PSB

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
Water hazard class (DE): 2
Dispersion coefficient(octanol-water) : 1.6
Storage class (VCI): 12-13

Chemical: *glycerole* CAS No.: 56-81-5
PNEC(fresh water) : 0.885 mg/L
PNEC = Predicted No Effected Concentration
LC50_{fish/96h} : >5000_{24h} mg/L
EC50_{daphnia/48h} : >10_{24h} g/L
IC50_{scenedesmus quadricauda/72h} : IC50_{7d} >10 g/L
EC10_{pseudomonas putita/16h} : EC5: >10 g/L
Water hazard class (DE): 0
Dispersion coefficient(octanol-water) : -1.76
Storage class (VCI): 10

Chemical: *indicator dye(s)* CAS No.: -
Storage class (VCI): 12-13

15 mL RA2

Chemical: *guanidinium thiocyanate* CAS No.: 593-84-0
Harmful to aquatic life with long lasting effects. Avoid contact of substance/mixture to environment.
Environmental hazards must not be labelled with P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).
PNEC(fresh water) : 42.4 µg/L
PNEC = Predicted No Effected 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
Water hazard class (DE): 3
Dispersion coefficient(octanol-water) : [pH 5.1] -1.11
Storage class (VCI): 12

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Chemical: *ethanol* CAS No.: 64-17-5
PNEC(fresh water) : 0.96 mg/L
PNEC = Predicted No Effect Concentration
LC50daphnia magna/48h : >100 mg/L
LC50pimephales promelas/96h : 13400 - 15100 mg/L
LC50leuciscus idus/96h : [48h] 8140 mg/L
LC50fish/96h : 13 g/L
EC50daphnia/48h : 9.3-14.2 g/L
IC50scenedesmus quadricauda/72h : [7d] 5000 mg/L
EC10pseudomonas putida/16h : [EC5] 6500 mg/L
Water hazard class (DE): 1 WGK No.: 0096
Dispersion coefficient(octanol-water) : -0.31
Storage class (VCI): 3

12 mL RA3

Chemical: *chemicals/mixture < 1%* CAS No.: -
Water hazard class (DE): 1
Storage class (VCI): 12-13

25 mL RP1

Chemical: *guanidinium thiocyanate* CAS No.: 593-84-0
Harmful to aquatic life with long lasting effects. Avoid contact of substance/mixture to environment.
Environmental hazards must not be labelled with P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).
PNEC(fresh water) : 42.4 µg/L
PNEC = Predicted No Effect Concentration
LC50fish/96h : [4d] 89.1 mg/L
EC50daphnia/48h : 42.4 mg/L
IC50scenedesmus quadricauda/72h : 130 mg/L
EC10pseudomonas putida/16h : [10d] 200 mg/L
Water hazard class (DE): 3
Dispersion coefficient(octanol-water) : [pH 5.1] -1.11
Storage class (VCI): 12

107 mg TCEP

Chemical: *tris-(2-carboxyethyl)phosphine hydrochloride, TCEP(•HCl)* CAS No.: 51805-45-9
Storage class (VCI): 12-13
Chemical: *inorganic salts, declaration not necessary* CAS No.: -
Water hazard class (DE): 1
Storage class (VCI): 12-13

200 U, Size D, rDNase

Chemical: *rDNase* CAS No.: 9003-98-9
Water hazard class (DE): 1 WGK No.: n.n.
Storage class (VCI): 13

13 mL RNase-free H₂O

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

12.2 Persistence and degradability

not necessary

12.3 Bioaccumulative potential

not necessary

12.4 Mobility in soil

not necessary

12.5 Results of PBT and vPvB assessment

no data available

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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** ($\leq 30 \text{ mL}/\Sigma \leq 1 \text{ L}$) = 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

Excepted Quantity: E 1

Tunnel restriction code: E

Special instructions: 640E

Air transport

PAX: 355

CAO: 366

max. weight PAX: 60 L

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.
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P261sh	Avoid breathing dust/vapours.
P264W	Wash with water thoroughly after handling.
P273	Avoid release to the environment.
P280sh	Wear protective gloves/eye protection.
P301+312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P304+340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P330	Rinse mouth.
P342+311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

16.2 Training advice

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

16.3 Recommended restriction on use

Only for professional user.

Look about employee restrictions for young people (f. ex. 94/33/EC or DE § 22 JArbSchG)!

Look about employee restrictions for pregnant women and nursing women (f.ex. 92/85/EEC or for DE §§ 11-13 MuSchG 2017)!

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

16.4 Further information

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16.5 Sources of key data

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

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

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

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

Regulation 849/2021/EU, 4th adaptation of CLP regulation to technical and scientific progress

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

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

TRGS 907, German engineering rules governing listing of substances and causes of sensitizations, updated November 2011

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

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