

Safety Data Sheet

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

REF: 740780.50

NucleoSpin Soil (50)

Page: 1/13

Printing date: 15.11.2021

Date of issue: 08.11.2021

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

1.1 Product identifier

REF 740780.50
Product name NucleoSpin Soil (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.

50 x 1 NucleoSpin® Bead Tubes (ceramic beads)
1 x 60 mL SB
1 x 13 mL SE
1 x 60 mL SL1
1 x 60 mL SL2
1 x 10 mL SL3
1 x 30 mL SW1
1 x 25 mL SW2
1 x 10 mL SX

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
Valenciennner 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

Signal word

WARNING

Hazard identification

H226
H302
H319
H336, H335
H412

Hazard classes/categories

Flam. Liq. 3
Acute Tox. 4 oral
Eye Irrit. 2
STOT SE 3
Aquatic Chronic 3

2.1 Classification of the substance or mixture

Safety Data Sheet

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

REF: 740780.50

NucleoSpin Soil (50)

Page: 2/13

Printing date: 15.11.2021

Date of issue: 08.11.2021

1 NucleoSpin® Bead Tubes (ceramic beads)

Signal word Do not need labelling as hazardous
-

No hazard class

60 mL SB



GHS07

Signal word WARNING

Hazard identification

Hazard classes/categories

H302

Acute Tox. 4 oral

H412

Aquatic Chronic 3

13 mL SE

Signal word Do not need labelling as hazardous
-

No hazard class

60 mL SL1

Signal word Do not need labelling as hazardous
-

No hazard class

60 mL SL2

Signal word Do not need labelling as hazardous
-

No hazard class

10 mL SL3

Signal word Do not need labelling as hazardous
-

No hazard class

30 mL SW1



GHS02



GHS07

Signal word WARNING

Hazard identification

Hazard classes/categories

H226

Flam. Liq. 3

H302

Acute Tox. 4 oral

H319

Eye Irrit. 2

H336, H335

STOT SE 3

Safety Data Sheet

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

REF: 740780.50

NucleoSpin Soil (50)

Page: 3/13

Printing date: 15.11.2021

Date of issue: 08.11.2021

25 mL SW2

Signal word Do not need labelling as hazardous
-

No hazard class

10 mL SX

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).

The irritant hazard should be eliminated, because of buffer chemicals inside.

1 NucleoSpin® Bead Tubes (ceramic beads)

Do not need labelling as hazardous
Signal word: -

60 mL SB



GHS07

Signal word: WARNING

H412

Harmful to aquatic life with long lasting effects.

13 mL SE

Do not need labelling as hazardous
Signal word: -

60 mL SL1

Do not need labelling as hazardous
Signal word: -

60 mL SL2

Do not need labelling as hazardous
Signal word: -

10 mL SL3

Do not need labelling as hazardous
Signal word: -

30 mL SW1



GHS02



GHS07

Safety Data Sheet

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

REF: 740780.50

NucleoSpin Soil (50)

Page: 4/13

Printing date: 15.11.2021

Date of issue: 08.11.2021

Signal word: WARNING

25 mL SW2

Do not need labelling as hazardous

Signal word: -

10 mL SX

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. For guanidine thiocyanate CAS 593-84-0: The properties H314, H332 "Causes severe skin burns and eye damage. Harmful if inhaled." are not relevant, because the mixture solution is buffered to pH 4-9 (see GHS Directive 1272/2008/EC Annex I, chapter 3.2.3.1.2.). ---

Information pertaining to particular risks to human and possible symptoms

Cause after oral intake, impairments of health when ingested in small quantities. -

Information pertaining to particular risks to the environment

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

PBT: not applicable

vPvB: not applicable

Other hazards

SECTION 3: Composition/information on ingredients

3.1 Substances or 3.2 Mixtures

1 NucleoSpin® Bead Tubes (ceramic beads)

Chemical: *Ceramic particles*

CAS No.: -

Classification:

No criteria for classification or naming of chemical not required.

TSCA Inventory:

not applicable

Concentration:

95 - <100 %

acc. CLP (GHS):

The criteria for classification are not fulfilled.

60 mL SB

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:

C₂H₆N₄S

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

13 mL SE

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.

60 mL SL1

Safety Data Sheet

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

REF: 740780.50

NucleoSpin Soil (50)

Page: 5/13

Printing date: 15.11.2021

Date of issue: 08.11.2021

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.

60 mL SL2

10 mL SL3

Chemical: *acetate buffer solution*

CAS No.: -

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

Formula: $\text{CH}_3\text{COOH}/\text{K}/\text{Na}\cdot\text{H}_2\text{O}$

TSCA Inventory: all listed

KE No.: listed

Concentration: 45 - <60 %

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

30 mL SW1

Chemical: *guanidine hydrochloride*

CAS No.: 50-01-1

Classification: H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2

Formula: CH_6ClN_3

Pseudonym: guanidinium chloride

TSCA Inventory: listed

REACH Reg. No.: 01-2119977063-35-0005

EC No.: 200-002-3

Indice No.:

607-148-00-0

RTECS: MF4300000

MFCD:

00013026

KE No.: KE-18111

Concentration: 36 - <50 %

acc. CLP (GHS): H302, Acute Tox. 4 oral, H319, Eye Irrit. 2

Chemical: *2-propanol*

CAS No.: 67-63-0

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

Formula: $\text{C}_3\text{H}_8\text{O}$

Pseudonym: isopropanol, IPA, propan-2-ol

TSCA Inventory: listed

REACH Reg. No.: 01-2119457558-25-XXXX

EC No.: 200-661-7

Indice No.:

603-117-00-0

RTECS: NT8050000

MFCD:

00011674

KE No.: KE-29363

Concentration: 20 - <35 %

acc. CLP (GHS): H226, Flam. Liq. 3, H319, Eye Irrit. 2, H336, STOT SE 3

25 mL SW2

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.

10 mL SX

Chemical: *acetate buffer solution*

CAS No.: -

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

Formula: $\text{CH}_3\text{COOH}/\text{K}/\text{Na}\cdot\text{H}_2\text{O}$

TSCA Inventory: all listed

KE No.: listed

Concentration: 15 - <25 %

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

Safety Data Sheet

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

REF: 740780.50

NucleoSpin Soil (50)

Page: 6/13

Printing date: 15.11.2021

Date of issue: 08.11.2021

SECTION 4: First aid measures

4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitation if necessary. If necessary contact medical advice.

4.1.1 After SKIN Contact

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

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

4.3 Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Regular staff training is necessary.

6.2 Environmental precautions

not necessary, contains only small amounts of these substances

6.3 Methods and material for containment and cleaning up

Bind any escaping liquid with inert absorbent.

Collect small amounts of leaked liquid and flush with water into drains.

6.4 Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling in accordance with the test instruction, that comes with the product.

7.2 Conditions for safe storage, including any incompatibilities

The original product package of MACHEREY-NAGEL allows a safe storage.

Storage class (VCI): 3

Water hazard class (DE): 3

Safety Data Sheet

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

REF: 740780.50

NucleoSpin Soil (50)

Page: 7/13

Printing date: 15.11.2021

Date of issue: 08.11.2021

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

1 NucleoSpin® Bead Tubes (ceramic beads)

Chemical: *Ceramic particles*

CAS No.: -

60 mL SB

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

13 mL SE

Chemical: *chemicals/mixture < 1%*

CAS No.: -

60 mL SL1

Chemical: *chemicals/mixture < 2%*

CAS No.: -

60 mL SL2

10 mL SL3

Chemical: *acetate buffer solution*

CAS No.: -

30 mL SW1

Chemical: *guanidine hydrochloride*

CAS No.: 50-01-1

DNEL: [inh] 3.5 mg/m³
DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): -
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: *2-propanol*

CAS No.: 67-63-0

DNEL: [inh] 500 mg/m³
DNEL = Derived No-Effect Level (for workers)

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

TRGS 900 (DE): 200 ppm / 500 mg/m³
E/e respirable

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

SUVA(CH) MAK value: 200 ppm / 500 mg/m³
TRGS 903 (DE): [Aceton B/b, U/b] 25 mg/L
B blood, U urine, a no limitation, b end of exposition or shift

NIOSH: [TWA] 400 ppm / 980 mg/m³
NIOSH STEL: 500 ppm / 1225 mg/m³
[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: [TWA] 400 ppm / 980 mg/m³

25 mL SW2

Chemical: *chemicals/mixture < 1%*

CAS No.: -

Safety Data Sheet

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

REF: 740780.50

NucleoSpin Soil (50)

Page: 8/13

Printing date: 15.11.2021

Date of issue: 08.11.2021

10 mL SX

Chemical: acetate buffer solution

CAS No.: -

8.2 Exposure controls

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

8.2.1 Respiratory protection

No additional recommendations.

8.2.2 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.

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

1 NucleoSpin® Bead Tubes (ceramic beads)

Appearance: solid

Colour: white

Odor: odorless

Particle size:

0.6-0.8 mm

60 mL SB

Appearance: liquid

Colour: colourless

Odor: odorless

pH:

6.5-7.5

Specific gravity:

1.13 g/cm³

13 mL SE

Appearance: liquid

Colour: colourless

Odor: odorless

pH:

8-9

Specific gravity:

1.0 g/cm³

60 mL SL1

Appearance: liquid

Colour: colourless

Odor: odorless

Specific gravity:

1.02 g/cm³

60 mL SL2

Appearance: liquid

Colour: colourless

Odor: odorless

Specific gravity:

1.02 g/cm³

10 mL SL3

Appearance: liquid

Colour: colourless

Odor: acetic

pH:

5-6

Specific gravity:

1.19 g/cm³

30 mL SW1

Appearance: liquid

Colour: colourless

Odor: alcoholic

pH:

7-8

Flash point:

25 °C

Specific gravity:

1.06 g/cm³

25 mL SW2

Appearance: liquid

Colour: colourless

Odor: odorless

pH:

7-8

Specific gravity:

1.00 g/cm³

Safety Data Sheet

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

REF: 740780.50

NucleoSpin Soil (50)

Page: 9/13

Printing date: 15.11.2021

Date of issue: 08.11.2021

10 mL SX

Appearance: liquid
pH:

Colour: colourless
7-8

Odor: acetic

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.

1 NucleoSpin® Bead Tubes (ceramic beads)

Chemical: *Ceramic particles*
TSCA Inventory: not applicable

CAS No.: -

60 mL SB

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
LD50_{oral rat}: 593 mg/kg
LC50_{drum rbt}: >2000 mg/m³
LC50_{ihl rat}: [4h] 5.319 mg/L
LD50_{ipr 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.

13 mL SE

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

CAS No.: -

60 mL SL1

Safety Data Sheet

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

REF: 740780.50	NucleoSpin Soil (50)	Page: 10/13
Printing date: 15.11.2021	Date of issue: 08.11.2021	

Chemical:	chemicals/mixture < 2%	CAS No.: -
TSCA Inventory:	all listed, <2%	
Korea Exist.Chem.Inventory:	listed	

60 mL SL2

10 mL SL3

Chemical:	acetate buffer solution	CAS No.: -
TSCA Inventory:	all listed	
Korea Exist.Chem.Inventory:	listed	

30 mL SW1

Chemical:	guanidine hydrochloride	CAS No.: 50-01-1
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:	KE-18111	
LD50 _{orl rat} :	475-907 mg/kg	
LC50 _{ihl rat} :	[4h] 3181-7655 µg/m³	
LD50 _{drm rbt} :	2000 mg/kg	
Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.		

Chemical:	2-propanol	CAS No.: 67-63-0
TSCA Inventory:	listed	California Proposition 65 List: not listed
ACGIH:	1230 ppm	
Exposure Routes:	inhalation, ingestion, skin and/or eye contact	
Target Organs:	Eyes, skin, respiratory system	
Symptoms:	irritation eyes, nose, throat; drowsiness, dizziness, headache; dry cracking skin; in animals: narcosis	
Australia NICNAS:		Canada CEPA 1999: DSL yes
Japan CSCL/PRTR:	PAC yes, Japan PDSCL: -	
Japan ISHL:	listed ≥1,0%/≥0,1%, Article 57-2 (SDS required)	
South Korea TCCA:		
Korea Exist.Chem.Inventory:	KE-29363	
LD50 _{orl rat} :	5045 mg/kg	
LC _{LoWorl hmn} :	3570 mg/kg	
LC50 _{ihl rat} :	16 _{4h} g/m³	
LD50 _{drm rbt} :	12.8 g/kg	
TRGS 905 (DE):	R _F C	

25 mL SW2

Chemical:	chemicals/mixture < 1%	CAS No.: -
TSCA Inventory:	all listed, <1%	
Korea Exist.Chem.Inventory:	listed	

10 mL SX

Chemical:	acetate buffer solution	CAS No.: -
TSCA Inventory:	all listed	
Korea Exist.Chem.Inventory:	listed	

SECTION 12: Ecological information

12.1 Toxicity

Following information is valid for pure substances.

1 NucleoSpin® Bead Tubes (ceramic beads)

Safety Data Sheet

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

REF: 740780.50

NucleoSpin Soil (50)

Page: 11/13

Printing date: 15.11.2021

Date of issue: 08.11.2021

Chemical: *Ceramic particles*
Storage class (VCI): 12-13

CAS No.: -

60 mL SB

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
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
Water hazard class (DE): 3
Dispersion coefficient_(octanol-water) : [pH 5.1] -1.11
Storage class (VCI): 12

13 mL SE

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

CAS No.: -

60 mL SL1

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

CAS No.: -

60 mL SL2

10 mL SL3

Chemical: *acetate buffer solution*
Storage class (VCI): 12

CAS No.: -

30 mL SW1

Chemical: *guanidine hydrochloride* CAS No.: 50-01-1
PNEC(fresh water) : -
PNEC = Predicted No Effect Concentration
LC50_{leuciscus idus/96h} : 1759 mg/L
LC50_{fish/96h} : [4d] 690-1850; [48h] 1758-2420 mg/L
EC50_{daphnia/48h} : 70.2 mg/L
EC10_{pseudomonas putida/16h} : [72h] 11.8-33.5 mg/L
Water hazard class (DE): 1 WGK No.: 0788
Storage class (VCI): 12

Chemical: *2-propanol* CAS No.: 67-63-0
PNEC(fresh water) : 140.9 mg/L
PNEC = Predicted No Effect Concentration
LC50_{fish/96h} : 1400 mg/L
EC50_{daphnia/48h} : 13.3 g/L
IC50_{scenedesmus quadricauda/72h} : >1000 mg/L
EC10_{pseudomonas putida/16h} : EC5: 1050 mg/L
Water hazard class (DE): 1 WGK No.: 0135
Dispersion coefficient_(octanol-water) : 0.05
Storage class (VCI): 3

25 mL SW2

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

CAS No.: -

10 mL SX

Chemical: *acetate buffer solution*
Storage class (VCI): 12

CAS No.: -

Safety Data Sheet

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

REF: 740780.50

NucleoSpin Soil (50)

Page: 12/13

Printing date: 15.11.2021

Date of issue: 08.11.2021

12.2 Persistence and degradability

not necessary

12.3 Bioaccumulative potential

not necessary

12.4 Mobility in soil

not necessary

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

no additional data available

SECTION 13: Disposal considerations

Do not collect in acidic waste. May form toxic gases.

Please observe local regulations for collection and disposal of hazardous waste and contact waste disposal company, where you will obtain information on laboratory waste disposal (waste code number 16 05 06).

13.1 Waste treatment methods

Normally it is possible to empty small amounts (diluted!) into drains.

SECTION 14: Transport information

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. (2-propanol mixture)

14.3 Class: 3 14.4 Packing group: III

Road transport

Classification code: F1

Limited Quantity: 5 L

Excepted Quantity: E 1

Air transport

PAX: 355

CAO: 366

Maritime transport

EmS: F-E, S-E

Tunnel restriction code: 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 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 ---

Safety Data Sheet

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

REF: 740780.50

NucleoSpin Soil (50)

Page: 13/13

Printing date: 15.11.2021

Date of issue: 08.11.2021

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.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
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.
P260D	Do not breathe 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.
P330	Rinse mouth.

16.2 Training advice

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

16.3 Recommended restriction on use

Only for professional user.

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

16.4 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.

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

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

Revisions/Updates

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

2017-11 Adaption of ECHA Registration dossier