

Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740472.50

NucleoSpin DNA Stool (50)

Page: 1/15

Printing Date: 04.04.2023

Date of Issue: 03.03.2023

Version: 2.10.8.11

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

1.1 Product Identifier / Product Name

REF 740472.50
Product Name NucleoSpin DNA Stool (50)

1 x 13 mL SE
50 x 1 Bead Tube Type A (ceramic beads)
1 x 60 mL ST3
1 x 30 mL ST4
1 x 25 mL ST5
1 x 50 mL ST1
1 x 10 mL ST2

UFI: 1A6V-H3H9-G20E-ACTR
UFI: MMPT-631A-V206-GNTN

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
Valenciener 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



GHS02



GHS07

Signal Word

WARNING

Hazard Identification

H226
H302
H315
H319
H336
H412

Hazard Classes/Categories

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

2.1 Classification of the substance or mixture

30 mL ST4



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Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740472.50

NucleoSpin DNA Stool (50)

Page: 2/15

Printing Date: 04.04.2023

Date of Issue: 03.03.2023

Version: 2.10.8.11



GHS02



GHS07

Signal Word

WARNING

Hazard Identification

Hazard Classes/Categories

| | |
|------|-------------------|
| H226 | Flam. Liq. 3 |
| H302 | Acute Tox. 4 oral |
| H315 | Skin Irrit. 2 |
| H319 | Eye Irrit. 2 |
| H336 | STOT SE 3 |

60 mL ST3



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

-

25 mL ST5

Signal Word

Do not need labelling as hazardous

No Hazard Class

-

10 mL ST2

Signal Word

Do not need labelling as hazardous

No Hazard Class

-

50 mL ST1

Signal Word

Do not need labelling as hazardous

No Hazard Class

-

1 Bead Tube Type A (ceramic beads)

Signal Word

Do not need labelling as hazardous

No Hazard Class

-



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Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740472.50

NucleoSpin DNA Stool (50)

Page: 3/15

Printing Date: 04.04.2023

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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.

30 mL ST4



GHS02



GHS07

Signal Word: WARNING

60 mL ST3



GHS07

Signal Word: WARNING

13 mL SE

Do not need labelling as hazardous

Signal Word: -

25 mL ST5

Do not need labelling as hazardous

Signal Word: -

10 mL ST2

Do not need labelling as hazardous

Signal Word: -

50 mL ST1

Do not need labelling as hazardous

Signal Word: -

1 Bead Tube Type A (ceramic beads)

Do not need labelling as hazardous

Signal Word: -

Label elements of the complete product



GHS02



GHS07

Signal Word: WARNING

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

Possible endocrine disrupting effects

data not available

Safety Data Sheet

SDS acc. Hazard Communication Standard

| | | |
|---------------------------|---------------------------|--------------------|
| REF: 740472.50 | NucleoSpin DNA Stool (50) | Page: 5/15 |
| Printing Date: 04.04.2023 | Date of Issue: 03.03.2023 | Version: 2.10.8.11 |

Substance name: *acetate buffer solution*
 CAS No.: -

Substance rating: No criteria for classification or naming of chemical is not required.
 Chemical Formula: $\text{CH}_3\text{COOH}/\text{K}/\text{Na}\cdot\text{H}_2\text{O}$
 Concentration: 45 - <60 %
 acc. GHS: The criteria for classification are not fulfilled.

60 mL ST3

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: $\text{C}_2\text{H}_6\text{N}_4\text{S}$
 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

Index No.: 615-004-00-3

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.

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 Vapors**
After inhalation of foam or vapor 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

No additionally recommendations. ---

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. 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



Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740472.50

NucleoSpin DNA Stool (50)

Page: 6/15

Printing Date: 04.04.2023

Date of Issue: 03.03.2023

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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.

5.4 Additional Information

SECTION 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedure

Do not breathe vapors. 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 sewer.

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

Storage class (VC1): 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

30 mL ST4

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

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

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



Safety Data Sheet

SDS acc. Hazard Communication Standard

| | | |
|---------------------------|---------------------------|--------------------|
| REF: 740472.50 | NucleoSpin DNA Stool (50) | Page: 7/15 |
| Printing Date: 04.04.2023 | Date of Issue: 03.03.2023 | Version: 2.10.8.11 |

| | | |
|---|--|-------------------|
| 25 mL ST5 | | |
| Chemical: | <i>chemicals/mixture until 1%</i> | CAS No.: - |
| 13 mL SE | | |
| Chemical: | <i>chemicals/mixture until 1%</i> | CAS No.: - |
| 50 mL ST1 | | |
| Chemical: | <i>chemicals/mixture until 2%</i> | CAS No.: - |
| 1 Bead Tube Type A (ceramic beads) | | |
| Chemical: | <i>Ceramic particles</i> | CAS No.: - |
| 10 mL ST2 | | |
| Chemical: | <i>acetate buffer solution</i> | CAS No.: - |
| 60 mL ST3 | | |
| 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 | |

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 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

Not necessary.

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

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

30 mL ST4

| | |
|--------------------------------------|--------------------|
| 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: | 25 °C |
| i) Autoignition Temperature: | data not available |
| j) Decomposition Temperature: | data not available |



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Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740472.50

NucleoSpin DNA Stool (50)

Page: 8/15

Printing Date: 04.04.2023

Date of Issue: 03.03.2023

Version: 2.10.8.11

| | |
|-------------------------------------|------------------------|
| 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: | 1.06 g/cm ³ |
| q) Relative Vapor Density (air=1) : | data not available |
| r) Particle Size: | data not available |

25 mL ST5

| | |
|--------------------------------------|------------------------|
| 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/cm ³ |
| q) Relative Vapor Density (air=1) : | data not available |
| r) Particle Size: | data not available |

13 mL SE

| | |
|--------------------------------------|-----------------------|
| a) State of aggregation: | liquid |
| b) Color: | colorless |
| c) Odor: | odorless |
| d) Melting Point: | 0 °C |
| 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: | 8-9 |
| 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 |

50 mL ST1

| | |
|--------------------------------------|--------------------|
| 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: | 7.5-8.5 |
| l) Kinematic Viscosity: | data not available |
| m) Soluble in Water: | data not available |
| n) Partition Coefficient (o/w) : | data not available |



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Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740472.50

NucleoSpin DNA Stool (50)

Page: 9/15

Printing Date: 04.04.2023

Date of Issue: 03.03.2023

Version: 2.10.8.11

- o) Vapor Pressure (68°F): data not available
- p) Specific Gravity: 1.02 g/cm³
- q) Relative Vapor Density (air=1): data not available
- r) Particle Size: data not available

1 Bead Tube Type A (ceramic beads)

- a) State of aggregation: solid
- 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
- q) Relative Vapor Density (air=1): data not available
- r) Particle Size: 0.6-0.8 mm

10 mL ST2

- a) State of aggregation: liquid
- b) Color: colorless
- c) Odor: acetic
- 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: 5-6
- 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: 1.19 g/cm³
- q) Relative Vapor Density (air=1): data not available
- r) Particle Size: data not available

60 mL ST3

- 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: 1.13 g/cm³
- q) Relative Vapor Density (air=1): data not available
- r) Particle Size: data not available



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SDS acc. Hazard Communication Standard

REF: 740472.50

NucleoSpin DNA Stool (50)

Page: 10/15

Printing Date: 04.04.2023

Date of Issue: 03.03.2023

Version: 2.10.8.11

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

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.

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.

30 mL ST4

| | | | |
|-----------------------------|---|---------------------------|------------|
| Chemical: | <i>2-propanol</i> | CAS No.: | 67-63-0 |
| TSCA Inventory: | listed | California Prop. 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 | | |
| Canada CEPA 1999: | DSL yes | | |
| LD50 orl rat : | 5045 mg/kg | | |
| LC _{Low} orl hmn : | 3570 mg/kg | | |
| LC50 ihl rat : | 25 mg/L/4H | | |

Chemical: *guanidine hydrochloride* CAS No.: 50-01-1

| | | | |
|-------------------|---|---------------------------|------------|
| TSCA Inventory: | listed | California Prop. 65 List: | not listed |
| Canada CEPA 1999: | DSL yes | | |
| LD50 orl rat : | 475-907 mg/kg | | |
| LC50 ihl rat : | 3181-7655 µg/m ³ /4H | | |
| Acute Effects: | Cause after oral intake, impairments of health when ingested in small quantities. | | |

25 mL ST5

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

13 mL SE

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

50 mL ST1

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



Safety Data Sheet

SDS acc. Hazard Communication Standard

| | | |
|---------------------------|---------------------------|--------------------|
| REF: 740472.50 | NucleoSpin DNA Stool (50) | Page: 11/15 |
| Printing Date: 04.04.2023 | Date of Issue: 03.03.2023 | Version: 2.10.8.11 |

1 Bead Tube Type A (ceramic beads)

Chemical: *Ceramic particles* CAS No.: -
 TSCA Inventory: not applicable

10 mL ST2

Chemical: *acetate buffer solution* CAS No.: -
 TSCA Inventory: all listed

60 mL ST3

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.

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.

30 mL ST4

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 putita/16h : EC5: 1050 mg/L
 Partition Coefficient (o/w) : 0,05

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 putita/16h : [72h] 11.8-33.5 mg/L

25 mL ST5

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

13 mL SE

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

50 mL ST1

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

1 Bead Tube Type A (ceramic beads)

Chemical: *Ceramic particles* CAS No.: -

10 mL ST2

Chemical: *acetate buffer solution* CAS No.: -

60 mL ST3



Safety Data Sheet

SDS acc. Hazard Communication Standard

| | | |
|---------------------------|---------------------------|--------------------|
| REF: 740472.50 | NucleoSpin DNA Stool (50) | Page: 12/15 |
| Printing Date: 04.04.2023 | Date of Issue: 03.03.2023 | Version: 2.10.8.11 |

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

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

UN/NA 1993 Class 3 III, **Excepted Quantities** ($\leq 30 \text{ mL} / \sum \leq 1 \text{ L}$) = ADR/ IATA E1
 or

14.1. UN/NA: 1993 **14.2. Proper Shipping Name:** Flammable liquid, n.o.s. (2-propanol mixture)

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

Transportation by Road

Classification code: F1
 Limited Quantity: 5 L Tunnel restriction code: D/E
 Excepted Quantity: E 1 Special instructions: 640E

Air Transportation

Limited Quantity: LQ 7
 Excepted Quantity: E 1
 PAX: 355 max. weight PAX: 60 L
 CAO: 366 max. weight CAO: 220 L

Maritime Transport

EmS: F-E, S-E Storage Category: A

14.5 Environmental Hazards

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

14.6 Special Precautions for User

not necessary

14.7 Carriage of bulk cargo by sea in accordance with IMO instruments

Not applicable.



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Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740472.50

NucleoSpin DNA Stool (50)

Page: 13/15

Printing Date: 04.04.2023

Date of Issue: 03.03.2023

Version: 2.10.8.11

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)

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 2.10.8.11 and 2.2.2.2 following changes were applied: - 8 product component data corrected - 6 composition data corrected - 9 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. |
| H336 | May cause drowsiness or dizziness. |
| H412 | Harmful to aquatic life with long lasting effects. |

16.2.2 List of relevant P Phrases

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 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

Regulation 487/2013/EU, adaptation of regulation 1272/2008/EC 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

2017-11 adjustment according the ECHA registration dossier

2022-11 adjustment according Regulation 878/2020/EU



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|---------------------------|---------------------------|--------------------|
| REF: 740472.50 | NucleoSpin DNA Stool (50) | Page: 14/15 |
| Printing Date: 04.04.2023 | Date of Issue: 03.03.2023 | Version: 2.10.8.11 |

16.5 Further Information

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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: | lethal concentration 50% |
| LD50: | lethal dose 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: | fish, 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: | fish, fathead minnow |
| PNEC: | Predicted No Effect 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 |



Safety Data Sheet

SDS acc. Hazard Communication Standard

| | | |
|---------------------------|---------------------------|--------------------|
| REF: 740472.50 | NucleoSpin DNA Stool (50) | Page: 15/15 |
| Printing Date: 04.04.2023 | Date of Issue: 03.03.2023 | Version: 2.10.8.11 |

| | |
|----------|---|
| 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 |
| 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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