

Safety Data Sheet

SDS acc. Hazard Communication Standard

| | | |
|---------------------------|------------------------------|------------------|
| REF: 740494.10 | NucleoSnap Plasmid Midi (10) | Page: 1/16 |
| Printing Date: 04.04.2023 | Date of Issue: 27.02.2023 | Version: 2.2.7.6 |

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

1.1 Product Identifier / Product Name

| | | |
|-----------------------------|------------------------------|--------------------------|
| REF | 740494.10 | |
| Product Name | NucleoSnap Plasmid Midi (10) | |
| 1 x 25-100 mg RNase A (lyo) | | UFI: WWJV-U3PV-U207-MFGF |
| 1 x 100 mL SN1 | | |
| 1 x 100 mL SN2 | | UFI: W24W-23R9-3206-XR1C |
| 1 x 100 mL SN3 | | |
| 1 x 90 mL SN4 | | |
| 1 x 12 mL SN6 | | |
| 1 x 13 mL SNE | | |
| 1 x 25 mL SN5 | | UFI: E4FW-93GQ-X203-AP6W |

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 GHS08

Signal Word DANGER

| Hazard Identification | Hazard Classes/Categories |
|-----------------------|---------------------------|
| H226 | Flam. Liq. 3 |
| H315 | Skin Irrit. 2 |
| H319 | Eye Irrit. 2 |
| H334 | Resp. Sens. 1 |
| H336 | STOT SE 3 |

2.1 Classification of the substance or mixture

25 mL SN5



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Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740494.10

NucleoSnap Plasmid Midi (10)

Page: 2/16

Printing Date: 04.04.2023

Date of Issue: 27.02.2023

Version: 2.2.7.6



GHS02



GHS07

Signal Word

WARNING

Hazard Identification

Hazard Classes/Categories

H226

Flam. Liq. 3

H319

Eye Irrit. 2

H336

STOT SE 3

100 mL SN2



GHS07

Signal Word

WARNING

Hazard Identification

Hazard Classes/Categories

H315

Skin Irrit. 2

H319

Eye Irrit. 2

25-100 mg RNase A (lyo)



GHS08

Signal Word

DANGER

Hazard Identification

Hazard Classes/Categories

H334

Resp. Sens. 1

90 mL SN4

Signal Word

Do not need labelling as hazardous

No Hazard Class

-

100 mL SN1

Signal Word

Do not need labelling as hazardous

No Hazard Class

-

12 mL SN6

Signal Word

Do not need labelling as hazardous

No Hazard Class

-

13 mL SNE

Do not need labelling as hazardous



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Safety Data Sheet

SDS acc. Hazard Communication Standard

| | | |
|---------------------------|------------------------------|------------------|
| REF: 740494.10 | NucleoSnap Plasmid Midi (10) | Page: 3/16 |
| Printing Date: 04.04.2023 | Date of Issue: 27.02.2023 | Version: 2.2.7.6 |

Signal Word -
No Hazard Class

100 mL SN3

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

List of H phrases: see section 16.2

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

According the implementation of GHS immediate packages only must be labelled with product identifier(s), GHS symbol(s), signal word, manufacturer name and phone number (OSHA's interpretation of HCS 2012). Harmful chemicals/mixtures with signal word: **WARNING** and highly flammable chemicals/mixtures must not be labelled with H and P phrases **until 125 mL** (EU 1272/2008 Annex I - 1.5.2) / **until 100 mL** (Canada WHMIS 2015). This labelling exemption does not apply to U.S.A. This labelling exemption is NOT valid for sensiblizing substances.

25 mL SN5



Signal Word: WARNING

100 mL SN2



Signal Word: WARNING

25-100 mg RNase A (Iyo)



Signal Word: DANGER
H334
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
P261sh, P342+311
Avoid breathing dust/vapors.If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

90 mL SN4

Do not need labelling as hazardous
Signal Word: -

100 mL SN1

Do not need labelling as hazardous
Signal Word: -

12 mL SN6

Do not need labelling as hazardous
Signal Word: -

13 mL SNE

Do not need labelling as hazardous
Signal Word: -

100 mL SN3

Do not need labelling as hazardous



Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740494.10

NucleoSnap Plasmid Midi (10)

Page: 4/16

Printing Date: 04.04.2023

Date of Issue: 27.02.2023

Version: 2.2.7.6

Signal Word: -

Label elements of the complete product



Signal Word: DANGER

H334

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

P261sh, P342+311

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

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.

Information pertaining to particular Risks to Human and possible Symptoms

Cause after impairments of health when ingested in small quantities. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Kit contains small amounts of enzymes, which may cause sensitization by direct and repeated contact.

Information pertaining to particular Risks to the Environment

PBT: not applicable

vPvB: not applicable

Possible endocrine disrupting effects

data not available

SECTION 3: Composition/Information on Ingredients

3.1 Substances or 3.2 Mixtures

25-100 mg RNase A (Iyo)

Substance name: *RNase*
CAS No.: 9001-99-4

Substance rating: H334, Resp. Sens. 1
Chemical Formula: Enzyme Comm. No. 3.1.1.27.5, origin: bovine pancreas (controlled population)
Synonyms (de): RNase A
EC No.: 232-646-6
Concentration: 90 - <100 %
acc. GHS: H334, Resp. Sens. 1

100 mL SN1

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

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

12 mL SN6

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

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

13 mL SNE



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|---------------------------|------------------------------|------------------|
| REF: 740494.10 | NucleoSnap Plasmid Midi (10) | Page: 5/16 |
| Printing Date: 04.04.2023 | Date of Issue: 27.02.2023 | Version: 2.2.7.6 |

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

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

100 mL SN3

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

Substance rating: No criteria for classification or naming of chemical is not required.
 Chemical Formula: $CH_3COOH/K/Na \cdot H_2O$
 Concentration: 25 - <45 %
 acc. GHS: The criteria for classification are not fulfilled.

25 mL SN5

Substance name: *triethanolamine*
 CAS No.: 102-71-6

Substance rating: H315, Skin Irrit. 2, H319, Eye Irrit. 2
 Chemical Formula: $C_6H_{15}NO_3$
 Synonyms (de): 2,2',2''-Nitrilotriethanol, TEA, Tris(2-hydroxyethyl)amin
 REACH Reg. No.: 01-2119486482-31-xxxx
Dual-use: The application of this chemical is exempt from the regulation 2017/2268/EU (see IC350 remark 4).
 EC No.: 203-049-8
 Concentration: 1 - <10 %
 acc. GHS: The criteria for classification are not fulfilled.

Substance name: *2-propanol*
 CAS No.: 67-63-0

Substance rating: H225, Flam. Liq. 2, H319, Eye Irrit. 2, H336, STOT SE 3
 Chemical Formula: C_3H_8O
 Synonyms (de): Isopropanol, IPA, Propan-2-ol
 REACH Reg. No.: 01-2119457558-25-XXXX
 EC No.: 200-661-7
 Concentration: 35 - <50 %
 acc. GHS: H226, Flam. Liq. 3, H319, Eye Irrit. 2, H336, STOT SE 3
 Indice No.: 603-117-00-0

90 mL SN4

Substance name: *Brij® 58*
 CAS No.: 9004-95-9

Substance rating: No criteria for classification or naming of chemical is not required.
 Chemical Formula: $HO-(CH_2CH_2O)_n-(CH_2)_{15}-CH_3$
 Synonyms (de): Polyoxyethylen-(20)-cetyler
 EC No.: 500-014-1
 Concentration: 60 - <100 %
 acc. GHS: The criteria for classification are not fulfilled.

100 mL SN2

Substance name: *sodium hydroxide solution*
 CAS No.: 1310-73-2

Substance rating: H314, Skin Corr. 1A
 Chemical Formula: $NaOH \cdot H_2O$
 Synonyms (de): verdünnte Natronlauge
 REACH Reg. No.: 01-2119457892-27-xxxx
 EC No.: 215-185-5
 Concentration: 0,5 - <1 %
 acc. GHS: H315, Skin Irrit. 2, H319, Eye Irrit. 2
 Indice No.: 011-002-00-6



Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740494.10

NucleoSnap Plasmid Midi (10)

Page: 6/16

Printing Date: 04.04.2023

Date of Issue: 27.02.2023

Version: 2.2.7.6

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

Substance rating: H228, Flam. Sol. 1, H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H318, Eye Dam. 1, H332, Acute Tox. 4 inh., H335, STOT SE 3, H412, Aquatic Chronic 3

Chemical Formula: C₁₂H₂₅NaO₄S

Synonyms (de): Natriumlaurylsulfat

REACH Reg. No.: 01-2119489461-32-xxxx

EC No.: 205-788-1

Concentration: 0,1 - <1 %

acc. GHS: The criteria for classification are not fulfilled.

3.3 Remarks

When not listed, mixtures are added with water [CAS No. 7732-18-5] to 100%. List of Hazard and Precaution phrases: see section 16.2.

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 Vapors

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

4.1.4 After ORAL Intake

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

4.2 Most important Symptoms and Effects, both acute and delayed

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

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: Fire-Fighting Measures

5.1 Extinguishable Media

5.1.1 Suitable extinguishing media

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

5.1.2 Unsuitable extinguishing media

data not available

5.2 Special Hazards arising from the Substance or Mixture

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

5.3 Advice for Firefighters

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

5.4 Additional Information



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Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740494.10

NucleoSnap Plasmid Midi (10)

Page: 7/16

Printing Date: 04.04.2023

Date of Issue: 27.02.2023

Version: 2.2.7.6

SECTION 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedure

Do not breathe vapors. 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

PBT: not applicable
vPvB: not applicable

6.3 Methods and Material for Containment and Cleaning up

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

6.4 Reference to other Sections

SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling

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

7.2 Conditions for Safe Storage, including any Incompatibilities

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

Storage class (VCI): 3

Water hazard class (DE): 2

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

25-100 mg RNase A (Iyo)

Chemical: RNase

CAS No.: 9001-99-4

100 mL SN1

Chemical: chemicals/mixture until 1%

CAS No.: -

12 mL SN6

Chemical: chemicals/mixture until 1%

CAS No.: -

13 mL SNE

Chemical: chemicals/mixture until 1%

CAS No.: -

100 mL SN3

Chemical: acetate buffer solution

CAS No.: -

25 mL SN5

Chemical: triethanolamine

CAS No.: 102-71-6

DNEL: [derm] 6.3; [inh] 5 mg/m³
DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): 0.32 mg/L
PNEC = Predicted No Effect Concentration

NIOSH: not listed
[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: not listed

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



Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740494.10

NucleoSnap Plasmid Midi (10)

Page: 8/16

Printing Date: 04.04.2023

Date of Issue: 27.02.2023

Version: 2.2.7.6

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

90 mL SN4

Chemical: *Brij® 58*

CAS No.: 9004-95-9

100 mL SN2

Chemical: *sodium hydroxide solution*

CAS No.: 1310-73-2

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

8.2 Exposure Controls

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

8.2.1 Respiratory Protection

Use for open access of these substances for example a vapor/dust respirator, class A/AX. No additional recommendations.

8.2.2 Skin protection / Hand protection

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

8.2.3 Eye / Face Protection

Yes, Splash Goggles.

8.2.4 Skin Protection

Recommended to avoid contamination with these hazards.

8.2.5 Hygiene Measures

Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.

8.2.6 Thermal hazards

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

25-100 mg RNase A (lyo)

| | |
|--------------------------------------|---------------------|
| a) State of aggregation: | solid (lyophilized) |
| 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: | data not available |
| l) Kinematic Viscosity: | data not available |
| m) Soluble in Water: | 0-100 % |
| n) Partition Coefficient (o/w) : | data not available |
| o) Vapor Pressure (68°F): | data not available |
| p) Specific Gravity: | data not available |
| q) Relative Vapor Density (air=1) : | data not available |
| r) Particle Size: | data not available |



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Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740494.10

NucleoSnap Plasmid Midi (10)

Page: 9/16

Printing Date: 04.04.2023

Date of Issue: 27.02.2023

Version: 2.2.7.6

100 mL SN1

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

12 mL SN6

| | |
|--------------------------------------|------------------------|
| 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 SNE

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



Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740494.10

NucleoSnap Plasmid Midi (10)

Page: 10/16

Printing Date: 04.04.2023

Date of Issue: 27.02.2023

Version: 2.2.7.6

100 mL SN3

| | |
|--------------------------------------|--------------------|
| 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- 5.5 |
| 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: | 1.14 g/mL |
| q) Relative Vapor Density (air=1) : | data not available |
| r) Particle Size: | data not available |

25 mL SN5

| | |
|--------------------------------------|--------------------|
| 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: | 24 °C |
| i) Autoignition Temperature: | data not available |
| j) Decomposition Temperature: | data not available |
| k) pH Value: | 5.5-6.5 |
| l) Kinematic Viscosity: | data not available |
| m) Soluble in Water: | 0-100 % |
| n) Partition Coefficient (o/w) : | data not available |
| o) Vapor Pressure (68°F): | data not available |
| p) Specific Gravity: | 0.94 g/cm³ |
| q) Relative Vapor Density (air=1) : | data not available |
| r) Particle Size: | data not available |

90 mL SN4

| | |
|--------------------------------------|--------------------|
| 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: | 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: | data not available |

100 mL SN2

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



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Safety Data Sheet

SDS acc. Hazard Communication Standard

| | | |
|---------------------------|------------------------------|------------------|
| REF: 740494.10 | NucleoSnap Plasmid Midi (10) | Page: 11/16 |
| Printing Date: 04.04.2023 | Date of Issue: 27.02.2023 | Version: 2.2.7.6 |

| | |
|--------------------------------------|-------------------------|
| e) Boiling Point: | data not available |
| f) Flammability: | data not available |
| g) Explosive Limits (lower / upper): | data not available |
| h) Flash Point: | data not available |
| i) Autoignition Temperature: | data not available |
| j) Decomposition Temperature: | data not available |
| k) pH Value: | 13 |
| 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: | 1.008 g/cm ³ |
| q) Relative Vapor Density (air=1) : | data not available |
| r) Particle Size: | data not available |

9.2 Further Information

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

SECTION 10: Stability and Reactivity

10.1 Reactivity

No further data available.

10.2 Chemical Stability

no known instability.

10.3 Possibility of Hazardous Reactions

No further data available.

10.4 Conditions to avoid

No more required.

10.5 Incompatible Materials

10.6 Hazardous Decomposition Products

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

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.

25-100 mg RNase A (lyo)

Chemical: *RNase* CAS No.: 9001-99-4

TSCA Inventory: listed

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

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

100 mL SN1

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

TSCA Inventory: all listed, <1%

12 mL SN6

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

TSCA Inventory: all listed, <1%



Safety Data Sheet

SDS acc. Hazard Communication Standard

| | | |
|---------------------------|------------------------------|------------------|
| REF: 740494.10 | NucleoSnap Plasmid Midi (10) | Page: 12/16 |
| Printing Date: 04.04.2023 | Date of Issue: 27.02.2023 | Version: 2.2.7.6 |

13 mL SNE

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

100 mL SN3

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

25 mL SN5

Chemical: *triethanolamine* CAS No.: 102-71-6
 TSCA Inventory: *listed* California Prop. 65 List: not listed
 Canada CEPA 1999: *DSL Yes*
 LD50 orl rat : *> 5000 mg/kg*

Chemical: *2-propanol* 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*

90 mL SN4

Chemical: *Brij® 58* CAS No.: 9004-95-9
 TSCA Inventory: *listed*
 LD50 orl rat : *2602 mg/kg*

100 mL SN2

Chemical: *sodium hydroxide solution* CAS No.: 1310-73-2
 TSCA Inventory: *listed* California Prop. 65 List: not listed
 Exposure Routes: *inhalation, ingestion, skin and/or eye contact*
 Target Organs: *Eyes, skin, respiratory system*
 Symptoms: *-*
 LD50 orl rat : *[< 1%] > 50000 mg/kg*
 LD50 orl mus : *[< 1%] > 4000 mg/kg*

Chemical: *dodecyl sulfate, sodium salt* CAS No.: 151-21-3
 TSCA Inventory: *listed* California Prop. 65 List: not listed
 Canada CEPA 1999: *DSL yes*
 LD50 orl rat : *1288 mg/kg*
 LC50 ihl rat : *3,900 mg/L/1H*

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.

25-100 mg RNase A (Iyo)

Chemical: *RNase* CAS No.: 9001-99-4

100 mL SN1

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



Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740494.10

NucleoSnap Plasmid Midi (10)

Page: 13/16

Printing Date: 04.04.2023

Date of Issue: 27.02.2023

Version: 2.2.7.6

12 mL SN6

Chemical: *chemicals/mixture until 1%*

CAS No.: -

13 mL SNE

Chemical: *chemicals/mixture until 1%*

CAS No.: -

100 mL SN3

Chemical: *acetate buffer solution*

CAS No.: -

25 mL SN5

Chemical: *triethanolamine*

CAS No.: 102-71-6

PNEC (fresh water) : 0.32 mg/L
PNEC = Predicted No Effect Concentration

LC50 fish/96h : >1000 mg/L

EC50 daphnia/48h : >1000 24h mg/L

Partition Coefficient (o/w) : -2,3

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

LC50 scenedesmus quadricauda/72h : >1000 mg/L

EC10 pseudomonas putita/16h : EC5: 1050 mg/L

Partition Coefficient (o/w) : 0,05

90 mL SN4

Chemical: *Brij® 58*

CAS No.: 9004-95-9

100 mL SN2

Chemical: *sodium hydroxide solution*

CAS No.: 1310-73-2

LC50 leuciscus idus/96h : 35-189 mg/L

LC50 fish/96h : 45.4 mg/L

EC50 daphnia/48h : >100 mg/L

Chemical: *dodecyl sulfate, sodium salt*

CAS No.: 151-21-3

LC50 daphnia magna/48h : 6.3 mg/L

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

Partition Coefficient (o/w) : 1,6

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



Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 740494.10

NucleoSnap Plasmid Midi (10)

Page: 14/16

Printing Date: 04.04.2023

Date of Issue: 27.02.2023

Version: 2.2.7.6

SECTION 13: Disposal Considerations

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

Excepted Quantity: E 1

Tunnel restriction code: D/E

Special instructions: 640E

Air Transportation

Limited Quantity: LQ 7

Excepted Quantity: E 1

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

14.6 Special Precautions for User

not necessary

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

Not applicable.

SECTION 15: Regulatory Information

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

U.S. Federal Regulations

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

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

29 CFR 1910.1200 Hazard communication.

NIOSH Pocket Guide to Chemical Hazards

NIOSH Workplace Safety & Health Topics

TSCA Inventory

U.S. State Regulations

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

Canada

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

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

15.2 Chemical Safety Assessment

not necessary for these small amounts

SECTION 16: Other Information

16.1 Changes compared to the last version

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

16.2 List of Hazard and Precaution Phrases

16.2.1 List of relevant H Phrases

H226

Flammable liquid and vapor.

H315

Causes skin irritation.



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Safety Data Sheet

SDS acc. Hazard Communication Standard

| | | |
|---------------------------|------------------------------|------------------|
| REF: 740494.10 | NucleoSnap Plasmid Midi (10) | Page: 15/16 |
| Printing Date: 04.04.2023 | Date of Issue: 27.02.2023 | Version: 2.2.7.6 |

- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H336 May cause drowsiness or dizziness.

16.2.2 List of relevant P Phrases

- P261sh Avoid breathing dust/vapors.
- P342+311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

16.3 Recommended Restriction on Use

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

16.4 Sources of Key Data

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

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

revisions/updates

Reason for revision: 2014-02 Corrected structure of the sections according to Regulation 453/2010/EU, if necessary
 2014-04 adjustment according Regulation 487/2013/EU
 2016-03 adjustment according Regulation 1221/2015/EU

2017-11 adjustment according the ECHA registration dossier
 2022-11 adjustment according Regulation 878/2020/EU

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



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Safety Data Sheet

SDS acc. Hazard Communication Standard

| | | |
|---------------------------|------------------------------|------------------|
| REF: 740494.10 | NucleoSnap Plasmid Midi (10) | Page: 16/16 |
| Printing Date: 04.04.2023 | Date of Issue: 27.02.2023 | Version: 2.2.7.6 |

| | |
|-----------------------|--|
| dog: | dog |
| EC10: | Concentration causing a toxic effect in 10% of the test organisms |
| EC: | European Community |
| EC-Nr: | Substance number of the EC substance inventory |
| EmS: | Guide to accident management measures on ships |
| EU: | European Union |
| fish: | fish (not specified) |
| GHS: | Global Harmonized System of Classification and Labeling of Chemicals |
| gpg: | guinea pig |
| ICAO: | International Civil Aviation Organization |
| ihl: | inhaled |
| IMDG: | International Maritime Dangerous Goods Code |
| intrav: | intravenous |
| ipt: | intraperitoneal |
| ISHL: | Industrial Safety and Health Law (Jp) |
| LC50: | letale concentration 50% |
| LD50: | letale dosis 50% |
| leuciscus idus: | fisch, ide, orfe |
| MAK: | maximum workplace concentration |
| Met: | Metall |
| mus: | mouse |
| Muta: | mutagen |
| NIOSH: | National Institute for Occupational Safety and Health (US) |
| NRD: | Non-rapidly degradable |
| onchorhynchus mykiss: | fish, rainbow trout |
| ori: | 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 |
| 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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