

Safety Data Sheet

SDS acc. Hazard Communication Standard

 REF: 744320.1
 NucleoMag DNA FFPE (1x96)
 Page: 1/18

 Printing Date: 04.04.2023
 Date of Issue: 28.10.2022
 Version: 2.2.4.6

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

1.1 Product Identifier / Product Name

REF 744320.1 Product Name NucleoMag DNA FFPE (1x96)

1 x 30 mL MB6

1 x 1-75 mg Proteinase K (Iyo) UFI: S0KV-C3D9-420Q-9T2H

1 x 1.7 mL B-Beads

1 x 15 mL PB

 1 x 60 mL Paraffin Dissolver (blue)
 UFI: FM7W-U31J-N20G-1QX0

 1 x 100 mL MB2
 UFI: UP9V-83ES-E20Q-4PJ8

 1 x 75 mL MB4
 UFI: H0AV-936C-N20Q-S1VH

1 x 30 mL D-Link 1 x 30 mL FL

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

Relevant identified uses

Product for analytical use.

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

Uses advised against

not described

1.3 Details of the Supplier and of the Safety Data Sheet

Manufactured by:

MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11, 52355 Düren, Germany

Phone: +49 2421 969 0 E-mail: sds@mn-net.com (msds@mn-net.com)

1.4 Emergency Telephone Number

Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service. USA: American Association Of Poison Control Centers

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

DE: Gemeinsames Giftinformationszentrum (GGIZ)
99089 Erfurt tel. +49 361 730 730
https://www.ggiz-erfurt.de

You find our current versions of SDS in Internet:

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

SECTION 2: Hazard(s) Identification

2.0 Classification of the complete Product



GHS02



GHS07



GHS08

Signal Word DANGER

Hazard Identification	Hazard Classes/Categories
H226	Flam. Liq. 3
H302	Acute Tox. 4 oral
H304	Asp. Tox. 1
H315	Skin Irrit. 2
H319	Eye Irrit. 2
H334	Resp. Sens. 1



Software: M2 V 6.1.1.5

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SDS acc. Hazard Communication Standard

REF: 744320.1 NucleoMag DNA FFPE (1x96) Page: 2/18 Printing Date: 04.04.2023 Date of Issue: 28.10.2022 Version: 2.2.4.6

2.1 Classification of the substance or mixture

1-75 mg Proteinase K (Iyo)





Signal Word **DANGER**

Hazard Identification	Hazard Classes/Categories
H315	Skin Irrit. 2
H319	Eye Irrit. 2
H334	Resp. Sens. 1

15 mL PB

Do not need labelling as hazardous

Signal Word

No Hazard Class

100 mL MB2





Signal Word WARNING

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

75 mL MB4





Signal Word WARNING

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

60 mL Paraffin Dissolver (blue)



GHS08

DANGER Signal Word

Hazard Identification Hazard Classes/Categories H304 Asp. Tox. 1



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SDS acc. Hazard Communication Standard

 REF: 744320.1
 NucleoMag DNA FFPE (1x96)
 Page: 3/18

 Printing Date: 04.04.2023
 Date of Issue: 28.10.2022
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30 mL D-Link

Do not need labelling as hazardous

Signal Word

No Hazard Class

30 mL MB6

Do not need labelling as hazardous

Signal Word

No Hazard Class

30 mL FL

Do not need labelling as hazardous

Signal Word

No Hazard Class

1.7 mL B-Beads

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 identificator(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 sensibilizing substances.

1-75 mg Proteinase K (Iyo)





GHS0

GHS08

Signal Word: DANGER

H334

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

P261sh, P342+311

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

15 mL PB

Do not need labelling as hazardous Signal Word: -

100 mL MB2





ELIGU2

GHS07

Signal Word: WARNING

75 mL MB4



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 NucleoMag DNA FFPE (1x96)
 Page: 4/18

 Printing Date: 04.04.2023
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GHS02

GHS0

Signal Word: WARNING 60 mL Paraffin Dissolver (blue)



Signal Word: DANGER

H304

May be fatal if swallowed and enters airways.

P301+310, P331

IF SWALLOWED: Immediately call a POISON CENTER/ doctor.Do NOT induce vomiting.

30 mL D-Link

Do not need labelling as hazardous

Signal Word: -

30 mL MB6

Do not need labelling as hazardous

Signal Word: -

30 mL FL

Do not need labelling as hazardous Signal Word: -

1.7 mL B-Beads

Do not need labelling as hazardous

Signal Word: -

Label elements of the complete product







GHO

GHS07

GHS08

Signal Word: DANGER

H304, H334

May be fatal if swallowed and enters airways. May cause allergy or asthma symptoms or breathing difficulties if inhaled. P261sh, P301+310, P331

Avoid breathing dust/vapors.IF SWALLOWED: Immediately call a POISON CENTER/ doctor.Do NOT induce vomiting.

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 oral intake, impairments of health when ingested in small quantities. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May be fatal if swallowed and enters airways. The Paraffin Dissolver needs no labeling H350, because the aromates are reduced (<0.03%).

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

This substance/mixture contains components considered to have endocrinedisrupting properties affecting human health, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.



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 Page: 5/18

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SECTION 3: Composition/Information on Ingredients

3.1 Substances or 3.2 Mixtures

1-75 mg Proteinase K (Iyo)

Substance name: proteinase K CAS No.: 9450-01-6

Substance rating: H315, Skin Irrit. 2, H319, Eye Irrit. 2, H334, Resp. Sens. 1 Enzyme Comm. No. 3.4.21.64, origin: tritirachium album

Synonyms (de): Endopeptidase K

EC No.: 254-457-8 Indice No.: 647-014-00-9

Concentration: 90 - <100 %

acc. GHS: H315, Skin Irrit. 2, H319, Eye Irrit. 2, H334, Resp. Sens. 1

30 mL MB6

Substance name: chemicals/mixture until 1%

CAS No.:

Substance rating: No criteria for classification or naming of chemical is not required.

Concentration: 0,1 - <1 %

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

30 mL FL

Substance name: chemicals/mixture until 1%

CAS No.:

Substance rating: No criteria for classification or naming of chemical is not required.

Concentration: 0,1 - <1 %

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

30 mL D-Link

Substance name: inorganic salts, declaration not necessary

CAS No.:

Substance rating: No criteria for classification or naming of chemical is not required.

Synonyms (de): kein Gefahrstoff Concentration: 5 - <10 %

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

15 mL PB

Substance name: *glycerole* CAS No.: *56-81-5*

Substance rating: No criteria for classification or naming of chemical is not required.

Chemical Formula: C $_3$ H $_8$ O $_3$ Synonyms (de): 1,2,3-Propantriol 01-2119471987-18-xxxx

EC No.: 200-289-5 Indice No.: n/a

Concentration: 10 - <50 %

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

60 mL Paraffin Dissolver (blue)

Substance name: paraffin dissolver CAS No.: 64742-46-7

Substance rating: H304, Asp. Tox. 1

Chemical Formula: C_{15} - C_{20} , isomere aliphates Synonyms (de): KW-Fraktion C_{15} - C_{20} REACH Reg. No.: 01-2119827000-58-XXXX

EC No.: 934-956-3 Indice No.: 649-275-00-4

Concentration: 90 - <100 % acc. GHS: H304, Asp. Tox. 1



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1.7 mL B-Beads

Substance name: magnetic particles, suspended in water

CAS No.:

Substance rating: No criteria for classification or naming of chemical is not required.

Synonyms (de): magnetic beads
Concentration: 1 - <15 %

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

100 mL MB2

Substance name: sodium perchlorate

CAS No.: 7601-89-0

Substance rating: H271, Ox. Sol. 1, H302, Acute Tox. 4 oral

Chemical Formula: NaClO ₄ Synonyms (de): Perchlorat (fest)

REACH Reg. No.: 01-2119540521-50-xxxx

EC No.: 231-511-9 Indice No.: 017-010-00-6 Concentration: 15 - <40 %

acc. GHS: H302, Acute Tox. 4 oral

Substance name: *ethanol* CAS No.: *ethanol* 64-17-5

(denatured with 1% 2-butanone)

Substance rating: H225, Flam. Liq. 2

Chemical Formula: C 2 H 6 O; C 2 H 5 OH Synonyms (de): Äthylalkohol, vergällter S

Synonyms (de): Äthylalkohol, vergällter Spiritus REACH Reg. No.: 01-2119457610-43-xxxx

EC No.: 200-578-6 Indice No.: 603-002-00-5

Concentration: 35 - <55 % acc. GHS: H226, Flam. Liq. 3

75 mL MB4

Substance name: sodium perchlorate

CAS No.: 7601-89-0

Substance rating: H271, Ox. Sol. 1, H302, Acute Tox. 4 oral

Chemical Formula: NaClO 4 Synonyms (de): Perchlorat (fest)

REACH Reg. No.: 01-2119540521-50-xxxx

EC No.: 231-511-9 Indice No.: 017-010-00-6

Concentration: 15 - <40 %

acc. GHS: H302, Acute Tox. 4 oral

Substance name: *ethanol* CAS No.: *ethanol* 64-17-5

(denatured with 1% 2-butanone)

Substance rating: H225, Flam. Liq. 2 Chemical Formula: C $_2$ H $_6$ O; C $_2$ H $_5$ OH Synonyms (de): Äthylalkohol, vergällter Spiritus

REACH Reg. No.: 01-2119457610-43-xxxx EC No.: 200-578-6 Indice No.:

Concentration: 20 - <35 % acc. GHS: H226, Flam. Liq. 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.

603-002-00-5

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.



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 NucleoMag DNA FFPE (1x96)
 Page: 7/18

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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

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. Not for organic solvents (see section 13).

6.4 Reference to other Sections



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REF: 744320.1 NucleoMag DNA FFPE (1x96) Page: 8/18 Printing Date: 04.04.2023 Date of Issue: 28.10.2022 Version: 2.2.4.6

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): Water hazard class (DE):

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**

1-75 mg Proteinase K (Iyo)

CAS No.: 39450-01-6 Chemical: proteinase K

30 mL MB6

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

30 mL FL

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

30 ml D-link

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

15 mL PB

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

DNEL: [inh] 56 mg/m³ DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): 0.885 mg/L PNEC = Predicted No Effected Concentration

60 mL Paraffin Dissolver (blue)

Chemicalparaffin dissolver CAS No.: 64742-46-7

NIOSH STEL: 10 mg/m³ OSHA: 5 mg/m³

1.7 mL B-Beads

Chemical: magnetic particles, suspended in water CAS No .: -

100 mL MB2

CAS No.: 7601-89-0 Chemical: sodium perchlorate

[derm] 2.16 mg/kg bw/day; [inh] 0.28 mg/m³ DNEL = Derived No-Effect Level (for workers) DNEL:

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: CAS No.: 64-17-5

DNEL: [derm] 343 mg/kg; [inh] 950 mg/m³ DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): U.9o mg/L PNEC = Predicted No Effected Concentration

NIOSH:

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

OSHA: 1000 ppm / 1900 mg/m³



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REF: 744320.1 NucleoMag DNA FFPE (1x96) Page: 9/18 Printing Date: 04.04.2023 Date of Issue: 28.10.2022 Version: 2.2.4.6

75 mL MB4

sodium perchlorate CAS No. 7601-89-0 Chemical:

[derm] 2.16 mg/kg bw/day; [inh] 0.28 mg/m³ DNEL:

DNEL = Derived No-Effect Level (for workers)

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: CAS No.: 64-17-5

[derm] 343 mg/kg; [inh] 950 mg/m³

DNEL = Derived No-Effect Level (for workers)

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

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

OSHA: 1000 ppm / 1900 mg/m³

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.

solid (lyophilized)

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

1-75 mg Proteinase K (Iyo) a) State of aggregation: b) Color: c) Odor:

slightly grey odorless d) Melting Point: data not available e) Boiling Point: 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 I) 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



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REF: 744320.1 NucleoMag DNA FFPE (1x96) Page: 10/18 Printing Date: 04.04.2023 Date of Issue: 28.10.2022 Version: 2.2.4.6

30 mL MB6

a) State of aggregation: liauid b) Color: colorless c) Odor: odorless d) Melting Point: 0°C data not available

e) Boiling Point: 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 8-9 k) pH Value:

I) 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/cm³

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

30 mL FL

a) State of aggregation: liquid colorless b) Color: 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: 9-9.5

I) 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: q) Relative Vapor Density (air=1): 1.01 g/cm³ data not available

r) Particle Size:

30 mL D-Link

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: 4.5-5

I) Kinematic Viscosity: data not available m) Soluble in Water: data not available n) Partition Coefficient (o/w): data not available o) Vapor Pressure (68°F): data not available p) Specific Gravity 1.03 g/cm³ q) Relative Vapor Density (air=1):

data not available r) Particle Size: data not available

15 mL PB

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



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data not available



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REF: 744320.1 NucleoMag DNA FFPE (1x96) Page: 11/18 Date of Issue: 28.10.2022 Version: 2.2.4.6 Printing Date: 04.04.2023

data not available

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 I) 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: 1.11 g/cm³ q) Relative Vapor Density (air=1): data not available r) Particle Size: data not available

60 mL Paraffin Dissolver (blue)

a) State of aggregation: liquid b) Color: blue c) Odor: organic d) Melting Point: -18 _{pourpoint} °C 245-330 °C e) Boiling Point: f) Flammability: data not available 1-6 Vol% g) Explosive Limits (lower / upper): h) Flash Point: >115 °C i) Autoignition Temperature: >230 °C j) Decomposition Temperature: data not available k) pH Value: I) Kinematic Viscosity: data not available <0.001 % m) Soluble in Water: n) Partition Coefficient (o/w): 7-8.7 o) Vapor Pressure (68°F): < 0.003 hPa p) Specific Gravity: 0.82 g/cm3 q) Relative Vapor Density (air=1):

1.7 mL B-Beads

r) Particle Size:

liquid a) State of aggregation: 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 I) 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 MB2

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 24 °C h) Flash Point:



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Safety Data Sheet

SDS acc. Hazard Communication Standard

 REF: 744320.1
 NucleoMag DNA FFPE (1x96)
 Page: 12/18

 Printing Date: 04.04.2023
 Date of Issue: 28.10.2022
 Version: 2.2.4.6

i) Autoignition Temperature: data not available j) Decomposition Temperature: data not available k) pH Value: 5-6 I) 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: 1.08 g/cm³ q) Relative Vapor Density (air=1): data not available r) Particle Size: data not available

75 mL MB4

a) State of aggregation: liquid b) Color: colorless c) Odor: alcoholic d) Melting Point: data not available 83,6 °C e) Boiling Point: f) Flammability: data not available g) Explosive Limits (lower / upper): data not available h) Flash Point: 26 °C i) Autoignition Temperature: data not available j) Decomposition Temperature: data not available 4.5-5.5 k) pH Value: I) Kinematic Viscosity: data not available m) Soluble in Water: data not available n) Partition Coefficient (o/w): data not available o) Vapor Pressure (68°F): data not available p) Specific Gravity: 1.06 g/cm³ q) Relative Vapor Density (air=1): data not available r) Particle Size: data not available

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.



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Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 744320.1 NucleoMag DNA FFPE (1x96) Page: 13/18 Printing Date: 04.04.2023 Date of Issue: 28.10.2022 Version: 2.2.4.6

SECTION 11: Toxicological Information

11.1 Information on Toxicological Effects

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

1-75 mg Proteinase K (Iyo)

proteinase K CAS No.: 39450-01-6 Chemical:

TSCA Inventory: listed (CAS 102925-54-2)

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.

30 mL MB6

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

TSCA Inventory: all listed, <1%

30 mL FL

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

TSCA Inventory: all listed, <1%

30 mL D-Link

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

TSCA Inventory: all listed

15 mL PB

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

TSCA Inventory: listed (1,2,3-Propanetriol) Exposure Routes: inhalation, skin and/or eye contact Target Organs: Eyes, skin, respiratory system, kidneys

Symptoms: irritation eyes, skin, respiratory system; headache, nausea, vomiting; kidney injury

LD50 orl rat:

60 mL Paraffin Dissolver (blue)

Chemical: paraffin dissolver CAS No.: 64742-46-7

TSCA Inventory: listed > 5000 mg/kg LD50 orl rat:

1.7 mL B-Beads

Chemical: magnetic particles, suspended in water CAS No .: -

listed (CAS 1309-38-2) TSCA Inventory:

100 mL MB2

CAS No.: 7601-89-0 Chemical: sodium perchlorate

TSCA Inventory: listed California Prop. 65 List: not listed Canada CEPA 1999: DSL Yes

LD50 orl rat: 2100 mg/kg

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

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

TSCA Inventory: listed California Prop. 65 List: not listed

ACGIH:

Exposure Routes: inhalation, ingestion, skin and/or eye contact

Target Organs: Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system

Symptoms: irritation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; cough;

liver damage; anemia; reproductive, teratogenic

Canada CEPA 1999: DSL yes LD50 orl rat : 6200 mg/kg LC_Low ihl gpg: 21,900 mg/L LC_Low orl hmn: 1400 mg/kg 123,4 mg/L/4H LC50 ihl mus: LC50 ihl rat: 115,9-133,8 mg/L/4H LD50 orl mus: 3450 mg/kg

75 mL MB4

Chemical: sodium perchlorate CAS No.: 7601-89-0

TSCA Inventory: isted California Prop. 65 List: not listed

Canada CEPA 1999: DSI Yes LD50 orl rat: 2100 mg/kg



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Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 744320.1 NucleoMag DNA FFPE (1x96) Page: 14/18 Printing Date: 04.04.2023 Date of Issue: 28.10.2022 Version: 2.2.4.6

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

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

TSCA Inventory: listed California Prop. 65 List: not listed

ACGIH: 1000 ppm

Exposure Routes: inhalation, ingestion, skin and/or eye contact

Target Organs: Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system

Symptoms: irritation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; cough;

liver damage; anemia; reproductive, teratogenic

Canada CEPA 1999: DSL yes LD50 orl rat: 6200 mg/kg LC Low ihl gpg: 21,900 mg/L LC Low orl hmn: 1400 mg/kg LC50 ihl mus: 123,4 mg/L/4H LC50 ihl rat: 115,9-133,8 mg/L/4H

LD50 orl mus: 3450 mg/kg

11.2 Other Hazards

Possible endocrine disrupting effects

This substance/mixture contains components considered to have endocrinedisrupting properties affecting human health, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Other Information

no additional data available

SECTION 12: Ecological Information

12.1 **Toxicity**

Following information is valid for pure chemicals.

1-75 mg Proteinase K (Iyo)

proteinase K CAS No.: 39450-01-6

30 mL MB6

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

30 mL FL

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

30 ml D-link

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

15 mL PB

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

PNEC (fresh water):
PNEC = Predicted No Effected Concentration 0.885 mg/L

LC50 fish/96h: >5000 _{24h} mg/L EC50 daphnia/48h: >10 _{24h} g/L IC5 7d > 10 g/L IC50 scenedesmus quadricauda/72h: EC5: >10 g/L EC10 pseudomonas putita/16h: Partition Coefficient (o/w): -1,76

60 mL Paraffin Dissolver (blue)

paraffin dissolver Chemical: CAS No.: 64742-46-7

>1028 mg/L LC50 fish/96h Partition Coefficient (o/w): 7-8.7

1.7 mL B-Beads

Chemical: magnetic particles, suspended in water CAS No .: -

100 mL MB2



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Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 744320.1 NucleoMag DNA FFPE (1x96) Page: 15/18 Printing Date: 04.04.2023 Date of Issue: 28.10.2022 Version: 2.2.4.6

> Chemical: sodium perchlorate

CAS No.: 7601-89-0 CAS No.: 64-17-5

Chemical: ethanol

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

LC50 daphnia magna/48h: >100 g/L 13.4-15.1 g/L LC50 pimephales promelas/96h: LC50 leuciscus idus/96h [48h] 8.14 g/L

LC50 fish/96h: 13 g/L EC50 daphnia/48h: 9.3-14.2 g/L IC50 scenedesmus quadricauda/72h : [7d] 5000 mg/L [EC5] 6500 mg/L EC10 pseudomonas putita/16h:

Partition Coefficient (o/w): -0.31

75 mL MB4

sodium perchlorate Chemical: CAS No.: 7601-89-0

Chemical: ethanoi CAS No.: 64-17-5

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

LC50 daphnia magna/48h: >100 g/L LC50 pimephales promelas/96h: 13.4-15.1 g/L LC50 leuciscus idus/96h [48h] 8.14 g/L LC50 fish/96h: 13 g/L EC50 daphnia/48h: 9.3-14.2 a/L [7d] 5000 mg/L IC50 scenedesmus quadricauda/72h: EC10 pseudomonas putita/16h: [EC5] 6500 mg/L

Partition Coefficient (o/w): -0,31

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**

This substance/mixture contains components considered to have endocrinedisrupting properties affecting human health, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

12.7 Other Adverse Effects

no additional data available

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). Or collect in solvent waste (RCRA Code D001, EU waste code number 07 07 04).

13.1 Waste Treatment Methods

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

SECTION 14: Transport Information

14.2. Proper Shipping Name: Flammable liquid, n.o.s. (ethanol mixture) 14.1. UN/NA:

14.3. Hazard Class: 3 14.4. Packing Group:

Transportation by Road Classification code: F1

Tunnel restriction code: Limited Quantity: 5 L D/E **Excepted Quantity:** Special instructions: 640E



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Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 744320.1 NucleoMag DNA FFPE (1x96) Page: 16/18 Printing Date: 04.04.2023 Date of Issue: 28.10.2022 Version: 2.2.4.6

Air Transportation

LQ7 Limited Quantity: **Excepted Quantity:** E 1

355 PAX: max. weight PAX: CAO: 366 max. weight CAO: 220 L

Maritime Transport

F-E, S-E EmS: 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 2.2.4.6 and 2.2.2.2 following changes were applied: - 2 composition data corrected - 4 substance data corrected

16.2 List of Hazard and Precaution Phrases

16.2.1 List of relevant H Phrases

Flammable liquid and vapor. H226

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation. H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

16.2.2 List of relevant P Phrases

P261sh Avoid breathing dust/vapors.

P301+310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

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



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Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 744320.1 NucleoMag DNA FFPE (1x96) Page: 17/18 Printing Date: 04.04.2023 Date of Issue: 28.10.2022 Version: 2.2.4.6

Regulation 790/2009/EU, adaptation of Regulation 1272/2008/EU to technical and scientific progress (1st ATP)

Regulation 453/2010/EU, adaptation of the REACH regulation 1907/2006/EG

TRGS 907, German technical rules for listing substances and causes of sensitization, updated November 2011 Regulation

487/2013/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (4th ATP)

Regulation 1221/2015/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (7th ATP) Regulation 776/2017/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (10th ATP)

Regulation 669/2018/EU, adaptation of Regulation 1272/2008/EC to technical and scientific progressText (11th ATP)

Regulation 1480/2018/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (13th ATP)

Regulation 521/2019/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (12th ATP)

TRGS 900, German rules of technology on limit values in the air at work, as of 03/2019

Regulation 217/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (14th ATP)

Regulation 878/2020/EU, adaptation of Annex II of the REACH regulation 1907/2006/EG

Regulation 1182/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (15th ATP) Regulation 643/2021/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (16th ATP)

Regulation 849/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (17th ATP)

revisions/updates

Reason for revision: 2014-02 Corrected structure of the sections according to Regulation 453/2010/EU, if necessary

2014-04 adjustment according Regulation 487/2013/EU

2016-03 adjustment according Regulation 1221/2015/EU

2017-08 adjustment according the Ordinance on Ethanol Denaturation 2016/1867/EU

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

16.5 **Further Information**

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16.6 Legend / Abbreviations

according acc:

ADR: Convention concerning the International Carriage of Dangerous Goods by Road

Act:

BAT: biological workplace tolerance value

CAO: Cargo Aircraft Only carcinogen Carc:

CAS: Chemical Abstracts Service

Classification, Labelling and Packaging regulation CLP:

CMR: carcinogen, mutagen, reproduction toxic

Corr: corrosive

chemical oxigen demand COD:

CSCL: Chemical Substance Control Law (Jp) Dam: damage

DNEL: Derived No-Effect Level (for workers) derm: dermal

dog: doa

EC10: Concentration causing a toxic effect in 10% of the test organisms

European Community EC:

EC-Nr: Substance number of the EC substance inventory EmS: Guide to accident management measures on ships

EU: **European Union** fish (not specified) fish:

Global Harmonized System of Classification and Labeling of Chemicals GHS:

guinea pig gpg:

ĬĊĂO: International Civil Aviation Organization

ihl: inhaled

IMDG: International Maritime Dangerous Goods Code intrav: intravenous

intraperitonaeal ipt:

ISHL: Industrial Safety and Health Law (Jp)

LC50: letale concentration 50%

LD50: letale dosis 50%



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Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 744320.1 NucleoMag DNA FFPE (1x96) Page: 18/18 Printing Date: 04.04.2023 Date of Issue: 28.10.2022 Version: 2.2.4.6

leuciscus idus: fisch, ide, orfe MAK: maximum workplace concentration

Met: Metall mus: mouse Muta: mutagen

NIOSH: National Institute for Occupational Safety and Health (US)

Non-rapidly degradable NRD:

onchorhynchus mykiss: fish, rainbow trout

OSHA: Occupational Safety and Health Administration PAX: transport on passenger planes allowed persistent, bioaccumulating, toxic substance PBT:

pH: pH value

pimephales p romelas: fish, fathead minnow PNEC: Predicted No Effected Concentration PROC 15: Process category 'for laboratory use'

Law for PRTR and Promotion of Chemical Management (Jp) PRTR:

PVC: polyvinyl chloride quail: bird, quail rat: rat rabbit rbt:

RD: rapidly degradable

repeated RF:

REACh: Registration, Evaluation, Authorisation and Restriction of Chemicals

REF: item number, reference number

Reg.No.: rRegistration number Repr: harmful to reproduction

respiratory Resp: sub cutan scu:

RIP: **REACH Implementations Projects**

SDS: safety data sheet Sens: sensitisation

short term exposure limit STEL: STOT: Specific Target Organ Toxicity Substance of Very High Concern SVHC:

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 technical regulations (DE) TRGS:

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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