

Safety Data Sheet

SDS acc. Hazard Communication Standard

 REF: 740240.4
 NucleoSpin 96 DNA FFPE (4x96)
 Page: 1/18

 Printing Date: 04.04.2023
 Date of Issue: 03.03.2023
 Version: 3.2.9.8

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

1.1 Product Identifier / Product Name

REF 740240.4 Product Name NucleoSpin 96 DNA FFPE (4x96)

> 2 x 100 mL B5 1 x 125 mL BE

1 x 300 mL BW
UFI: MMPT-631A-V206-GNTN
4 x 1-75 mg Proteinase K (Iyo)
UFI: S0KV-C3D9-420Q-9T2H
1 x 35 mL PB
3 x 45 mL BQ1
UFI: F37V-23QV-720V-9F2A

4 x 30 mL D-Link 4 x 30 mL FL

2 x 100 mL Paraffin Dissolver (blue) UFI: FM7W-U31J-N20G-1QX0

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 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 |
| H336 | STOT SE 3 |



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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 |

45 mL BQ1



| Signal Word | WARNING |
|-------------|---------|
| | |

| Hazard Identification | Hazard Classes/Categories |
|-----------------------|---------------------------|
| H302 | Acute Tox. 4 oral |
| H315 | Skin Irrit. 2 |
| H319 | Eye Irrit. 2 |

300 mL BW





| 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 |
| | |

35 mL PB

Do not need labelling as hazardous

Signal Word

No Hazard Class

100 mL Paraffin Dissolver (blue)





Software: M2 V 6.1.1.5

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> Signal Word **DANGER**

Hazard Identification Hazard Classes/Categories

H304 Asp. Tox. 1

30 mL D-Link

Do not need labelling as hazardous

Signal Word

No Hazard Class

125 mL BE

Do not need labelling as hazardous

Signal Word

No Hazard Class

100 mL B5

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

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)





GHS08

Signal Word: DANGER

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.

45 mL BQ1



Signal Word: WARNING



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300 mL BW





GHS02

GHS0

Signal Word: WARNING H226, H302, H315, H319, H336

Flammable liquid and vapor.Harmful if swallowed.Causes skin irritation.Causes serious eye irritation.May cause drowsiness or dizziness.

P210, P260D, P264W, P280sh, P301+312, P330

Do not breathe vapors. Wash with water thoroughly after handling.IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Wear protective gloves/eye protection. Rinse mouth.

35 mL PB

Do not need labelling as hazardous Signal Word: -

100 mL Paraffin Dissolver (blue)



GHS08

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: -

125 mL BE

Do not need labelling as hazardous Signal Word: -

100 mL B5

Do not need labelling as hazardous Signal Word: -

30 mL FL

Do not need labelling as hazardous Signal Word: -

Label elements of the complete product







GHS02

2 GHS07

GHS08

Signal Word: DANGER

H226, H302, H304, H315, H319, H334, H336

Flammable liquid and vapor.Harmful if swallowed.May be fatal if swallowed and enters airways.Causes skin irritation.Causes serious eye irritation.May cause allergy or asthma symptoms or breathing difficulties if inhaled.May cause drowsiness or dizziness.

P210. P260D. P264W. P280sh. P301+310. P330. P331

Do not breathe vapors. Wash with water thoroughly after handling. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Wear protective gloves/eye protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth. Do NOT induce vomiting.



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647-014-00-9

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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. Vapour forms explosive mixtures

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 cause drowsiness or dizziness. 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

data not available

SECTION 3: Composition/Information on Ingredients

3.1 Substances or 3.2 Mixtures

1-75 mg Proteinase K (Iyo)

Substance name: proteinase K 39450-01-6 CAS No.:

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

Synonyms (de): Endopeptidase K FC No . 254-457-8 Indice No:

Concentration: 90 - <100 %

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

300 mL BW

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

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

Chemical Formula: C3H8O

Isopropanol, IPA, Propan-2-ol Synonyms (de): RÉACH Reg. No.: 01-2119457558-25-XXXX

EC No.: 200-661-7 Indice No.: 603-117-00-0

Concentration: 20 - < 35 %

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

Substance name: guanidine hydrochloride

CAS No.: 50-01-1

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

Chemical Formula: CH₆ CIN₃ Synonyms (de): Guanidiniumchlorid REACH Reg. No.: 01-2119977063-35-0005

EC No.: 200-002-3 Indice No.: 607-148-00-0 Concentration: 36 - < 50 %

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

100 mL B5

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

125 mL BE



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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.

35 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

REACH Reg. No.: 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.

100 mL Paraffin Dissolver (blue)

Substance name: paraffin dissolver 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} 01-2119827000-58-XXXX

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

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

45 mL BQ1

Substance name: guanidine hydrochloride

CAS No.: 50-01-1

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

Chemical Formula: CH 6 CIN 3

Synonyms (de): Guanidiniumchlorid REACH Reg. No.: 01-2119977063-35-0005

EC No.: 200-002-3 Indice No.: 607-148-00-0

Concentration: 50 - <66 %

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

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.



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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 immediately. Rinse the affected skin or mucous membrane thoroughly for min. 15 minutes under running water. (If possible) use soap. Avoid neutralisation. Then apply a loose bandage.

4.1.2 After EYE Contact

After contact with the eyes rinse thoroughly under running water with the eyelid wide open for min. 10 minutes with eye washing bottle, eye douche or running water (protect intact eye). Before (if possible) apply eye drops Proxymetacaine 0.5%, if the opening the eyelid convulsion is painful. Further treatment to be carried out by an eye specialist.

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 with activated charcoal supplement should be drunk after it has been ingested. Do not induce vomiting under any circumstances. Do not make any efforts to neutralize it. Contact medical advice for possible consequences.

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.

Causes serious eye irritation.

4.3 Indication of any immediate Medical Attention and Special Treatment needed

After SKIN CONTACT rinse with water for a long time. Apply glucocorticosteroides following inflammatory reactions. After EYE CONTACT rinse immediately with plenty of water for a long time. Eyelid convulsion measures. Name the corrosive substance. Further treatment must to be carried out by an eye specialist. 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. The substance/mixture is flammable. Product package burns like paper or plastic. Cool any undamaged containers in water, and remove from the danger zone if possible. Heating will lead to an increase in pressure, and a danger of bursting. Spray any vapours released with water. Retent fire water. Use only acid-resistant safety equipment.

For great amount - if necessary - protective breathing apparatus which is independent of the ambient air (isolated equipment), and sealed protective clothing is necessary in the event of a large-scale formation of toxic substances.

5.4 Additional Information

Danger for environment only in the event of a large-scale leakage or formation of hazardous substances.

SECTION 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedure

Do not breathe vapors. Wear suitable protective gloves (see 8.2.2). Wear eye protection. Keep product away from sources of ignition - No smoking. Regular staff training is necessary, indicating hazards and precautions on the basis of operating instructions. Restrictions on activity must be observed.



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6.2 **Environmental Precautions**

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

see information in section 5.4,7,8 and 13

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):

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)

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

300 mL BW

Chemical: 2-propanol CAS No.: 67-63-0

[inh] 500 mg/m³ DNEL: DNEL = Derived No-Effect Level (for workers) PNEC (fresh water): 140.9 mg/L PNEC = Predicted No Effected 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 Effected Concentration

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

100 mL B5

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

125 mL BE

CAS No · chemicals/mixture until 1% Chemical:

30 ml Fl

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



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30 mL D-Link

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

35 mL PB

Chemical: alycerole 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

100 mL Paraffin Dissolver (blue)

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

NIOSH STEL: 10 mg/m³ OSHA:

45 mL BQ1

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

DNEL: finhl 3.5 mg/m³ DNEL = Derived No-Effect Level (for worke PNEC (fresh water) - PNEC = Predicted No Effected Concentration

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.

Respiratory Protection 8.2.1

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

Skin protection / Hand protection 8.2.2

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.

Thermal hazards 8.2.6

data not available

Limitation and monitoring of environmental exposure 8.3

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: solid (lyophilized) slightly grey 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: data not available



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data not available

I) Kinematic Viscosity:

m) Soluble in Water:

n) Partition Coefficient (o/w):

o) Vapor Pressure (68°F):

p) Specific Gravity:

q) Relative Vapor Density (air=1):

r) Particle Size:

data not available

300 mL BW

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): h) Flash Point: data not available 25 °C i) Autoignition Temperature: data not available j) Decomposition Temperature: data not available k) pH Value: 7-8 I) Kinematic Viscosity: data not available m) Soluble in Water: data not available n) Partition Coefficient _(o/w): o) Vapor Pressure (68°F): data not available data not available p) Specific Gravity: q) Relative Vapor Density _(air=1): 1.06 g/cm3 data not available

100 mL B5

r) Particle Size:

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): h) Flash Point: data not available data not available i) Autoignition Temperature: data not available j) Decomposition Temperature: data not available k) pH Value: 7-8 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: 1.00 g/cm³ q) Relative Vapor Density (air=1): data not available r) Particle Size: data not available

125 mL BE

a) State of aggregation: liquid b) Color: colorless c) Odor: odorless d) Melting Point: e) Boiling Point: 0°C 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 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



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Safety Data Sheet

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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 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): h) Flash Point: data not available 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:

n) Partition Coefficient (o/w):

o) Vapor Pressure (68°F):

p) Specific Gravity:

q) Relative Vapor Density (air=1):

r) Particle Size:

data not available

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
data not available

35 mL PB

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): h) Flash Point: data not available 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



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r) Particle Size:

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data not available



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data not available

100 mL Paraffin Dissolver (blue)

a) State of aggregation: liquid b) Color: blue c) Odor: organic d) Melting Point: -18 pourpoint °C e) Boiling Point: f) Flammability: 245-330 °C data not available g) Explosive Limits (lower / upper): 1-6 Vol% >115 °C h) Flash Point: i) Autoignition Temperature: >230 °C j) Decomposition Temperature: data not available

k) pH Value:

I) Kinematic Viscosity:

data not available m) Soluble in Water: < 0.001 % 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) data not available

r) Particle Size:

45 mL BQ1

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: j) Decomposition Temperature:

data not available data not available k) pH Value: 4.5-5.2 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: 1.18 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**

But avoid reactions with oxidizing agents. Can form very reactive substances with oxidizing agents. No further data available.

10.4 Conditions to avoid

But formation of explosive gases/vapours with air is possible. Use only in well ventilated rooms. No more required.



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10.5 Incompatible Materials

Avoid storage with oxidizing substances. ---

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.

1-75 mg Proteinase K (Iyo)

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

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.

300 mL BW

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

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/m³/4H

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

100 mL B5

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

TSCA Inventory: all listed, <1%

125 mL BE

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

35 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}: 12600 mg/kg

100 mL Paraffin Dissolver (blue)

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

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



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45 mL BQ1

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

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

Canada CEPA 1999: DSL yes LD50 orl rat: 475-907 mg/kg LC50 ihl rat: 3181-7655 µg/m³/4H

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.

1-75 mg Proteinase K (Iyo)

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

300 mL BW

CAS No.: 67-63-0 Chemical: 2-propanol

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

LC50 fish/96h: 1400 mg/L EC50 daphnia/48h: 13.3 g/L IC50 scenedesmus quadricauda/72h : >1000 mg/L EC5: 1050 mg/L

EC10 pseudomonas putita/16h: Partition Coefficient (o/w): 0.05

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

PNEC (fresh water) :
PNEC = Predicted No Effected 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

[72h] 11.8-33.5 mg/L EC10 pseudomonas putita/16h

100 mL B5

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

125 mL BE

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

30 mL FL

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

30 mL D-Link

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

35 ml PB

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

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 IC50 scenedesmus quadricauda/72h: IC5 7d > 10 g/L EC10 pseudomonas putita/16h EC5: >10 g/L

Partition Coefficient (o/w): -1,76



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100 mL Paraffin Dissolver (blue)

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

>1028 mg/L LC50 fish/96h: Partition Coefficient (o/w): 7-8,7

45 mL BQ1

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

PNEC (fresh water):
PNEC = Predicted No Effected 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

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

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. (2-propanol mixture) 14.1. UN/NA: 1993

14.3. Hazard Class: 3 14.4. Packing Group:

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: LQ7 **Excepted Quantity:** E 1

max. weight PAX: 60 I PAX. 355 CAO: 366 max. weight CAO: 220 I

Maritime Transport

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



Software: M2 V 6.1.1.5

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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 3.2.9.8 and 2.2.2.2 following changes were applied: -0 product data corrected - 7 composition data corrected - 6 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.

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.

H336 May cause drowsiness or dizziness.

16.2.2 List of relevant P Phrases

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P260D Do not breathe vapors.

P264W Wash with water thoroughly after handling. P280sh Wear protective gloves/eye protection.

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

P330 Rinse mouth.

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

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)



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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)

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**

MACHEREY-NAGEL GmbH & Co. KG provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

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16.6 Legend / Abbreviations

according

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

Act: acute

biological workplace tolerance value BAT:

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 oxigen demand

CSCL: Chemical Substance Control Law (Jp)

Dam: damage

Derived No-Effect Level (for workers) DNEL:

derm: dermal dog: dog

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

European Community EC:

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

FU: **Furopean Union** fish: fish (not specified)

GHS: Global Harmonized System of Classification and Labeling of Chemicals

guinea pig gpg: ICAO:

International Civil Aviation Organization

ihl: inhaled

IMDG: International Maritime Dangerous Goods Code

intrav: intravenous ipt: intraperitonaeal

ISHL: Industrial Safety and Health Law (Jp)

LC50: letale concentration 50% I D50: letale dosis 50%

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

Met: Metall mus. mouse mutagen Muta:

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

NRD: Non-rapidly degradable

fish, rainbow trout onchorhynchus mykiss:

orl: oral



Software: M2 V 6.1.1.5

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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 Effected Concentration PROC 15: Process category 'for laboratory use'

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

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

rapidly degradable RD:

RE: repeated

REACh: Registration, Evaluation, Authorisation and Restriction of Chemicals

REF: item number, reference number

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

Resp: respiratory sub cutan scu:

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
Toxic Chemicals Control Act (S. Korea) TCCA: Tox: toxic The Toxic Substances Control Act (US) TSCA:

TWA: time weighted average TRGS: technical regulations (DE)

very persistent, very bioaccumulating substance vPvB:

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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