

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

REF: 744601.1 NucleoMag DNA Swab (1x96) Page: 1/15

Printing date: 12.05.2021 Date of issue: 28.08.2020

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

#### 1.1 **Product identifier**

REF 744601.1

Product name NucleoMag DNA Swab (1x96)

REACH Registration number(s): see SECTION 3.1/3.2 or
A registration number for the substance(s) does not exist because the annual tonnage does not require registration or

the substance or its use is excluded from registration.

1 x 1.5 mL B-Beads

1 x 50 mL FLB

4 x 800 μL Liquid Proteinase K

1 x 75 mL MB3 1 x 75 mL MB4 1 x 30 mL MB6 2 x 40 mL MBL2

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

### Relevant identified uses

Product for analytical use.

Exposure Scenario Classification according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0

The exposure scenario is integrated into sections 1-16.

### Uses advised against

not described

#### 1.3 Details of the supplier of the safety data sheet

Manufactured by:

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

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

#### 1.4 **Emergency telephone number**

Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service. DE: Gemeinsames Giftinformationszentrum (GGIZ) 99089 Erfurt tel. +49 361 730 730

You find our current versions of SDS (22 languages) in Internet: http://www.mn-net.com/SDS

### **SECTION 2: Hazard identification**

#### 2.0 Classification of the complete product





GHS02 GHS07

Signal word WARNING

Hazard identification Hazard classes/categories

H226 Flam. Liq. 3 H302 Acute Tox. 4 oral

#### 2.1 Classification of the substance or mixture

1.5 mL B-Beads

Do not need labelling as hazardous

Signal word

No hazard class

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# ACHEREY-NAGE



# **Safety Data Sheet**

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50 mL FLB

Do not need labelling as hazardous

Signal word

No hazard class

800 µL Liquid Proteinase K

Do not need labelling as hazardous

Signal word

No hazard class

75 mL MB3





Signal word **WARNING** 

Hazard identification Hazard classes/categories

H226 Flam. Liq. 3 H302 Acute Tox. 4 oral

75 mL MB4





WARNING

Hazard identification Hazard classes/categories

H226 Flam. Liq. 3 H302 Acute Tox. 4 oral

30 mL MB6

Do not need labelling as hazardous

Signal word

No hazard class

Signal word

40 mL MBL2





Signal word WARNING

**Hazard identification** Hazard classes/categories

H226 Flam. Liq. 3 H302 Acute Tox. 4 oral

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#### 2.2 Label elements

According CLP directive inner packages must be only labelled with GHS symbol(s) and product identificator(s) (EU 1272/2008 Annex I - 1.5.1.2).

Harmful chemicals/mixtures with signal word: WARNING and highly flammable chemicals/mixtures must not be labelled with H and P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).

### 1.5 mL B-Beads

Do not need labelling as hazardous Signal word: -

### 50 mL FLB

Do not need labelling as hazardous Signal word: -

### 800 µL Liquid Proteinase K

Do not need labelling as hazardous Signal word: -

### **75 mL MB3**





Signal word: WARNING

### 75 mL MB4





Signal word: WARNING

### 30 mL MB6

Do not need labelling as hazardous Signal word: -

## 40 mL MBL2





GHS07

Signal word: WARNING

#### 2.3 Other hazards

Possible hazards from physicochemical properties

Flammable properties. -

Information pertaining to particular risks to human and possible symptoms Cause after oral intake, impairments of health when ingested in small quantities. Kit contains small amounts of enzymes: In liquid form no hazard H334. ---

Information pertaining to particular risks to the environment

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Other hazards

## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances or 3.2 Mixtures

1.5 mL B-Beads

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

Classification: No criteria for classification or naming of chemical not required. listed (CAS 1309-38-2)

TSCA Inventory:

Concentration: 1 - < 15 %

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

50 mL FLB

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

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

Formula: CH<sub>6</sub> CIN<sub>3</sub>

guanidinium chloride Pseudonym: TSCA Inventory: listed

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

EC No.: 200-002-3 Indice No.: 607-148-00-0 RTECS: MF4300000 00013026 MFCD:

KE-18111 KE No.: Concentration: 3 - <10 %

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

800 µL Liquid Proteinase K

Chemical: proteinase K, liquid (origin: tritirachium album) CAS No.: 39450-01-6I

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

Enzyme Comm. No. 3.4.21.64, origin: tritirachium album Formula:

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

647-014-00-9 EC No.: 254-457-8 Indice No: RTECS: MFCD: 00132129

KE No.: not listed Concentration: 1 - <3 %

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

Chemical: CAS No.: 56-81-5

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

Formula:  $C_3 H_8 O_3$ 

glycerin, 1,2,3-propanetriol Pseudonym: listed (1,2,3-Propanetriol) TSCA Inventory: 01-2119471987-18-xxxx REACH Reg. No.:

EC No.: 200-289-5 Indice No.: RTECS: MA8050000 MFCD: 00004722

KE No.: KE-29297 Concentration: 50 - <80 %

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

75 mL MB3

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

(denatured with 1%IPA/1%MEK, acc.2016/1867/EU)

Classification: H225, Flam. Liq. 2 Formula: C<sub>2</sub> H<sub>6</sub> O, C<sub>2</sub> H<sub>5</sub> OH

ethyl alcohol, methylated spirit Pseudonvm:

TSCA Inventory: listed 01-2119457610-43-xxxx REACH Reg. No.:

EC No.: 200-578-6 Indice No.: 603-002-00-5 KQ6300000 00003568 RTECS: MFCD:

KE No.: KE-13217 Concentration: 20 - < 35 % acc. CLP (GHS): H226, Flam. Liq. 3

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## **ACHEREY-NAGEI**



CAS No.: 7601-89-0

CAS No.: 7601-89-0

CAS No .: -

US:

# Safety Data Sheet

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Date of issue: 28.08.2020 Printing date: 12.05.2021

> Chemical: sodium perchlorate

H271, Ox. Sol. 1, H302, Acute Tox. 4 oral Classification: Formula: NaClO<sub>4</sub>

TSCA Inventory: listed

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

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

RTFCS SC9800000 KE-31569 KE No .:

Concentration: 15 - <40 % acc. CLP (GHS): H302, Acute Tox. 4 oral

75 mL MB4

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

MECD:

(denatured with 1%IPA/1%MEK, acc.2016/1867/EU)

Classification: H225, Flam. Liq. 2 Formula: C<sub>2</sub> H<sub>6</sub> O; C<sub>2</sub> H<sub>5</sub> OH

Pseudonym: ethyl alcohol, methylated spirit

TSCA Inventory: listed

REACH Reg. No.: 01-2119457610-43-xxxx

603-002-00-5 EC No.: 200-578-6 Indice No : KQ6300000 RTECS: MFCD: 00003568

KE No.: KE-13217 Concentration: 20 - <35 % acc. CLP (GHS): H226, Flam. Liq. 3

Chemical: sodium perchlorate

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

NaClO<sub>4</sub> Formula: TSCA Inventory: listed

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

231-511-9 FC No : Indice No : 017-010-00-6

RTECS: SC9800000 MFCD:

KE No.: KE-31569 Concentration: 15 - <40 %

acc. CLP (GHS): H302, Acute Tox. 4 oral

30 mL MB6

Chemical: chemicals/mixture < 1%

Classification: No criteria for classification or naming of chemical not required. TSCA Inventory: all listed, <1%

KE No.: listed Concentration: 0.1 - <1 %

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

40 mL MBL2

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

(denatured with 1%IPA/1%MEK, acc.2016/1867/EU) Classification: H225, Flam. Liq. 2

Formula: C<sub>2</sub> H<sub>6</sub> O, C<sub>2</sub> H<sub>5</sub> OH

ethyl alcohol, methylated spirit Pseudonym:

TSCA Inventory: listed

REACH Reg. No.: 01-2119457610-43-xxxx

EC No.: 200-578-6 603-002-00-5 Indice No.: RTECS: KQ6300000 MFCD: 00003568

KE No.: KE-13217 Concentration: 35 - < 55 %

acc. CLP (GHS): H226, Flam. Liq. 3

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## IACHEREY-NAGEL



CAS No.: 7601-89-0

# Safety Data Sheet

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Date of issue: 28.08.2020 Printing date: 12.05.2021

> Chemical: sodium perchlorate

H271, Ox. Sol. 1, H302, Acute Tox. 4 oral

Formula: NaClO<sub>4</sub> TSCA Inventory: listed

Classification:

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

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

MECD:

SC9800000 RTFCS KE-31569 KE No .: Concentration: 15 - <40 %

acc. CLP (GHS): H302, Acute Tox. 4 oral

#### 3.3 Remarks

When not listed, mixtures are added with water [CAS No. 7732-18-5] to 100%.

List of H and P phrases: see section 16.1

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

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

#### 4.1.1 After SKIN Contact

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

#### 4.1.2 After EYE Contact

After contact with the eyes rinse thoroughly under running water with the eyelid wide open with eye washing bottle, eye douche or running water (protect intact eye).

#### 4.1.3 After INHALATION of vapours

After inhalation of foam or vapour fresh air should be inhaled. Keep airways free. ---

#### 4.1.4 After ORAL Intake

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

#### 4.2 Most important symptoms and effects, both acute and delayed

#### 4.3 Indication of any immediate medical attention and special treatment needed

No additionally recommendations. ---

## SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

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

#### 5.2 Special hazards arising from the substance or mixture

WARNING: Flammable (GHS regulation). May form explosive vapour-air mixtures. Formation of hazardous and caustic vapour-air mixtures possible. -

#### 5.3 Advice for firefighters

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

#### 5.4 Additional information

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Regular staff training is necessary.

#### 6.2 **Environmental precautions**

not necessary

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6.3 Methods and material for containment and cleaning up

Bind any escaping liquid with inert absorbent.

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

6.4 Reference to other sections

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

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

#### 7.2 Conditions for safe storage, including any incompatibilities

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

Storage class (VCI): 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

1.5 mL B-Beads

Chemical: CAS No : magnetic particles, suspended in water

50 mL FLB

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

DNEL: [inh] 3.5 mg/m<sup>3</sup> 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

800 µL Liquid Proteinase K

proteinase K, liquid (origin: tritirachium album) CAS No.: 39450-01-6I Chemical:

SUVA(CH) MAK value: 0,00006<sub>15min</sub> mg/m<sup>3</sup>

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

DNEL: [inh] 56 mg/m<sup>3</sup> DNEL = Derived No-Effect Level (for workers)

PNEC<sub>(fresh water)</sub>: 0.885 mg/L PNEC = Predicted No Effected Concentration TRGS 900 (DE): 200 E mg/m<sup>3</sup> E/e respirable

Short-term exposure factor: 2 (I), Y

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 50 e\* mg/m<sup>3</sup>

75 mL MB3

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

DNEL: [derm] 343 mg/kg; [inh] 950 mg/m<sup>3</sup> DNEL = Derived No-Effect Level (for workers)

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

TRGS 900 (DE): 200 mL/m<sup>3</sup> / 380 mg/m<sup>3</sup>

Short-term exposure factor: 4 (II), Y

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 500 ppm / 960 mg/m<sup>3</sup>

NIOSH: [TWA] 1000 ppm / 1900 mg/m<sup>3</sup>

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[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

[TWA] 1000 ppm / 1900 mg/m<sup>3</sup> OSHA:

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

[derm] 2.16 mg/kg bw/day; [inh] 0.28 mg/m<sup>3</sup>

DNEL = Derived No-Effect Level (for workers)

TRGS 900 (DE): E/e respirable 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

75 mL MB4

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

DNEL: [derm] 343 mg/kg; [inh] 950 mg/m<sup>3</sup> DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): U.96 mg/L PNEC = Predicted No Effected Concentration

200 mL/m3 / 380 mg/m3 TRGS 900 (DE):

E/e respirable

Short-term exposure factor: 4 (II), Y

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

500 ppm / 960 mg/m<sup>3</sup> SUVA(CH) MAK value:

NIOSH:

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

OSHA: [TWA] 1000 ppm / 1900 mg/m<sup>3</sup>

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

DNEL: [derm] 2.16 mg/kg bw/day; [inh] 0.28 mg/m<sup>3</sup>

evel (for workers)

TRGS 900 (DE): E/e respirable

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

30 mL MB6

chemicals/mixture < 1% CAS No · -Chemical:

40 ml MBI 2

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

[derm] 343 mg/kg; [inh] 950 mg/m<sup>3</sup> DNEL = Derived No-Effect

Level (for workers) PNEC<sub>(fresh water)</sub>: 0.96 mg/L PNEC = Predicted No Effected Concentration

200 mL/m<sup>3</sup> / 380 mg/m<sup>3</sup> TRGS 900 (DE):

E/e respirable Short-term exposure factor: 4 (II), Y

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 500 ppm / 960 mg/m<sup>3</sup>

NIOSH:

H: [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: [TWA] 1000 ppm / 1900 mg/m<sup>3</sup>

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

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

TRGS 900 (DE):

E/e respirable

[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA-

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8.2 **Exposure controls** 

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

8.2.1 Respiratory protection

No additional recommendations.

8.2.2 Hand protection

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

8.2.3

Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection.

8.2.4 Skin protection

Not necessary

Personal hygiene 8.2.5

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

## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

1.5 mL B-Beads

Appearance: liquid Colour: colourless Odor: odorless

50 mL FLB

Appearance: liquid Colour: colourless Odor: odorless

pH: 7.5 - 8.5Specific gravity: 1.03 g/cm<sup>3</sup>

800 µL Liquid Proteinase K

Appearance: liquid Colour: colourless Odor: odorless

7-8 pH: Specific gravity: 1.1 g/cm<sup>3</sup> Solubility in water: 0-100 %

75 mL MB3

Colour: colourless Odor: alcoholic Appearance: liquid

4.5-5.5 83,6 °C Boiling point: 26°C Flash point: Specific gravity: 1.06 g/cm3

75 mL MB4

Colour: colourless Odor: alcoholic Appearance: liquid

4.5-5.5 83,6 °C Boiling point: 26 °C Flash point: Specific gravity: 1.06 g/cm<sup>3</sup>

30 mL MB6

Appearance: liquid Colour: colourless Odor: odorless

pH: 8-9

Specific gravity: 1.0 g/cm<sup>3</sup>

40 mL MBL2

Colour: colourless Odor: alcoholic Appearance: liquid

pH: 5-6 83,6 °C Boiling point: 24 °C Flash point:

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## **MACHEREY-NAGEL**



# Safety Data Sheet

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#### 9.2 Other information

Data for the other parameters of the mixtures are not available, because no registration and no chemical safety report is required. Relevant Properties of Substance Group

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

no further data available.

#### 10.2 Chemical stability

No known instability.

#### 10.3 Possibility of hazardous reactions

Note: Can form very reactive substances with oxidizing agents. No further data available.

#### 10.4 Conditions to avoid

#### 10.5 Incompatible materials

Avoid contact with strong acids or alkalines.

#### 10.6 Hazardous decomposition products

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

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

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

### 1.5 mL B-Beads

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

TSCA Inventory listed (CAS 1309-38-2)

## 50 mL FLB

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

TSCA Inventory: California Proposition 65 List: not listed listed Australia NICNAS: not listed Canada CEPA 1999: DSL yes

not listed, Japan PDSCL: not listed Japan CSCL/PRTR:

Japan ISHL: not listed South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-18111 LD50<sub>orl rat</sub>: 475-907 mg/kg LC50<sub>ihl rat</sub>: [4h] 3181-7655 µg/m<sup>3</sup> LD50<sub>drm rbt</sub>: 2000 mg/kg

### 800 µL Liquid Proteinase K

Chemical: proteinase K, liquid (origin: tritirachium album) CAS No.: 39450-01-6I

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

Japan CSCL/PRTR: not listed Japan ISHL: not listed Korea Exist.Chem.Inventory: not listed

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

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

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

Japan CSCL/PRTR: not listed, Japan PDSCL: not listed

Japan ISHL: not listed Korea Exist.Chem.Inventory: KE-29297 LD50<sub>orl rat</sub>: 12.6 g/kg LD50<sub>drm rbt</sub>: >18.7 g/kg

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> TRGS 905 (DE): R<sub>F</sub> C

**75 mL MB3** 

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

TSCA Inventory: listed California Proposition 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

Australia NICNAS: not listed Canada CEPA 1999: DSL yes

not listed, Japan PDSCL: not listed Japan CSCL/PRTR:

Japan ISHL: listed ≥0,1%/20,1%, Article 57-2 (SDS required)

not listed South Korea TCCA: Korea Exist.Chem.Inventory: KE-13217 LD50<sub>orl rat</sub>: 6200 mg/kg 21.9 g/m<sup>3</sup> LC\_Lowihl gpg: 1400 mg/kg LC\_Loworl hmn: LC50<sub>ihl mouse</sub>: [4h] 39 g/m<sup>3</sup> LC50<sub>ihl rat</sub>: [10h] 20 g/m<sup>3</sup> LD50<sub>drm rbt</sub>: 20 000 mg/kg LD50<sub>oral mouse</sub>: 3450 mg/kg

TRGS 905 (DE): K5, M5, R<sub>F</sub> C

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

TSCA Inventory: listed California Proposition 65 List: not listed Australia NICNAS: not listed Canada CEPA 1999: DSL Yes not listed, Japan PDSCL: not listed Japan CSCL/PRTR:

Japan ISHL: not listed South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-31569 LD50<sub>orl rat</sub>: 2100 mg/kg LD50<sub>ipr mus</sub> : 551 mg/kg

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

**75 mL MB4** 

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

TSCA Inventory: listed California Proposition 65 List: not listed

1000 ppm 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

Australia NICNAS: not listed Canada CEPA 1999: DSL yes

Japan CSCL/PRTR: not listed. Japan PDSCL: not listed

Japan ISHL: listed ≥0,1%/≥0,1%, Article 57-2 (SDS required)

South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-13217 LD50<sub>orl rat</sub>: 6200 mg/kg LC\_Lowihl gpg: 21.9 g/m<sup>3</sup> 1400 mg/kg LC\_Loworl hmn: LC50<sub>ihl mouse</sub>: [4h] 39 g/m<sup>3</sup> LC50<sub>ihl rat</sub>: [10h] 20 g/m<sup>3</sup> LD50<sub>drm rbt</sub>: 20 000 mg/kg LD50<sub>oral mouse</sub>: 3450 mg/kg TRGS 905 (DE): K5, M5, R<sub>F</sub> C

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

TSCA Inventory: California Proposition 65 List: not listed listed Australia NICNAS: not listed Canada CEPA 1999: DSL Yes

Japan CSCL/PRTR: not listed, Japan PDSCL: not listed

Japan ISHL: not listed South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-31569

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> LD50<sub>orl rat</sub>: 2100 mg/kg LD50<sub>ipr mus</sub>: 551 mg/kg

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

30 mL MB6

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

TSCA Inventory: all listed. <1% Korea Exist.Chem.Inventory: listed

40 mL MBL2

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

TSCA Inventory: listed California Proposition 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

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

liver damage; anemia; reproductive, teratogenic

Australia NICNAS: not listed Canada CEPA 1999: DSL yes

Japan CSCL/PRTR: not listed, Japan PDSCL: not listed

Japan ISHL: listed ≥0,1%/≥0,1%, Article 57-2 (SDS required)

South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-13217 LD50<sub>orl rat</sub>: 6200 mg/kg LC\_Lowihl gpg: 21.9 g/m<sup>3</sup> LC\_Loworl hmn: 1400 mg/kg LC50<sub>ihl mouse</sub>: [4h] 39 g/m<sup>3</sup> LC50<sub>ihl rat</sub>: [10h] 20 g/m<sup>3</sup>

LD50<sub>drm rbt</sub>: 20 000 mg/kg 3450 mg/kg LD50<sub>oral mouse</sub>:

TRGS 905 (DE): K5, M5, R<sub>F</sub> C

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

TSCA Inventory: California Proposition 65 List: not listed listed Australia NICNAS: not listed Canada CEPA 1999: DSL Yes

not listed, Japan PDSCL: not listed Japan CSCL/PRTR:

Japan ISHL: not listed South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-31569 LD50<sub>orl rat</sub>: 2100 mg/kg LD50<sub>ipr mus</sub> 551 mg/kg

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

## **SECTION 12: Ecological information**

#### 12.1 **Toxicity**

Following information is valid for pure substances.

1.5 mL B-Beads

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

Storage class (VCI): 12

50 mL FLB

guanidine hydrochloride CAS No.: 50-01-1

PNEC (fresh water):
PNEC = Predicted No Effected Concentration

LC50<sub>leuciscus</sub> idus/96h: 1759 mg/L

LC50fish/96h: [4d] 690-1850; [48h] 1758-2420 mg/L

EC50<sub>daphnia/48h</sub>: 70.2 mg/L

EC10<sub>pseudomonas putita/16h</sub>: Water hazard class (DE): [72h] 11.8-33.5 mg/L WGK No.: 0788

12 Storage class (VCI):

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CAS No.: 39450-01-6I

CAS No.: 56-81-5

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800 µL Liquid Proteinase K

proteinase K, liquid (origin: tritirachium album) Chemical:

Water hazard class (DE):

Storage class (VCI): 13

Chemical: glycerole

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

LC50<sub>fish/96h</sub>: >5000<sub>24h</sub> mg/L EC50<sub>daphnia/48h</sub>:  $>10_{24h}$  g/L IC5<sub>7d</sub> > 10 g/L IC50<sub>scenedesmus</sub> quadricauda/72h EC5: >10 g/L EC10<sub>pseudomonas putita/16h</sub>

Water hazard class (DE): -1.76 Dispersion coefficient(octanol-water): Storage class (VCI):

75 mL MB3

Chemical: ethanol CAS No.: 64-17-5 0.96 mg/L

PNEC (fresh water):
PNEC = Predicted No Effected Concentration

LC50<sub>daphnia magna/48h</sub>: >100 mg/L LC50pimephales promelas/96h: 13400 - 15100 mg/L LC50<sub>leuciscus idus/96h</sub> [48h] 8140 mg/L LC50<sub>fish/96h</sub>: 13 g/L 9.3-14.2 g/L EC50<sub>daphnia/48h</sub>: [7d] 5000 mg/L

IC50scenedesmus quadricauda/72h: EC10pseudomonas putita/16h [EC5] 6500 mg/L Water hazard class (DE): WGK No.: 0096

Dispersion coefficient<sub>(octanol-water)</sub>: Storage class (VCI):

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

Water hazard class (DE): WGK No.: 0382

Storage class (VCI): 12

75 mL MB4

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

0.96 mg/L

PNEC (fresh water):
PNEC = Predicted No Effected Concentration

LC50<sub>daphnia magna/48h</sub>: >100 mg/L 13400 - 15100 mg/L LC50pimephales promelas/96h: LC50 leuciscus idus/96h [48h] 8140 mg/L LC50<sub>fish/96h</sub>: 13 g/L

9.3-14.2 g/L EC50<sub>daphnia/48h</sub>: [7d] 5000 mg/L IC50scenedesmus quadricauda/72h: EC10<sub>pseudomonas putita/16h</sub> [EC5] 6500 mg/L Water hazard class (DE): WGK No.: 0096

Dispersion coefficient<sub>(octanol-water)</sub>: -0.31 Storage class (VCI):

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

Water hazard class (DE): 1 WGK No.: 0382

Storage class (VCI): 12

30 mL MB6

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

Water hazard class (DE): 12-13 Storage class (VCI):

40 mL MBL2

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

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

>100 mg/L LC50<sub>daphnia magna/48h</sub>: 13400 - 15100 mg/L LC50pimephales promelas/96h [48h] 8140 mg/L LC50<sub>leuciscus idus/96h</sub>: LC50<sub>fish/96h</sub>: 13 g/L

9.3-14.2 g/L EC50daphnia/48h:

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IC50<sub>scenedesmus</sub> quadricauda/72h: [7d] 5000 mg/L EC10<sub>pseudomonas</sub> putita/16h: [EC5] 6500 mg/L Water hazard class (DE): 1 WGK No.: 0096

Dispersion coefficient<sub>(octanol-water)</sub>: -0.31 Storage class (VCI): -0.31

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

Water hazard class (DE): 1 WGK No.: 0382 Storage class (VCI): 12

12.2 Persistence and degradability

not necessary

12.3 Bioaccumulative potential

not necessary

12.4 Mobility in soil

not necessary

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

no additional data available

### **SECTION 13: Disposal considerations**

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

13.1 Waste treatment methods

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

## **SECTION 14: Transport information**

14.1 UN number: 1993 14.2 UN proper shipping name: Flammable liquid, n.o.s. (ethanol mixture)

14.3 Class: 3 14.4 Packing group: II

Road transport
Classification code: F

Limited Quantity: 1 L Tunnel restriction code: Excepted Quantity: E 2 Special instructions: 640C

Air transport

PAX: 353 max. weight PAX: 5 L CAO: 364 max. weight CAO: 60 L

Maritime transport

EmS: F-E, S-E Storage category: B

14.5 Environmental hazards

none, contains only small quantities of hazardous substances

14.6 Special precautions for user

not necessary

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

## **SECTION 15: Regulatory information**

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on August 2013 German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung - GefStoffV), revised on November 2010, according to Directive 98/24/EC

TRGS 200, German engineering rules governing the classification and labelling of hazardous substances, preparations and products, updated October 2011

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

Look for your country-specific regulations.

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### 15.2 Chemical safety assessment

not necessary for these small amounts ---

## **SECTION 16: Other information**

### 16.1 List of H and P phrases

16.1.1 List of relevant H phrases

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

16.1.2 List of relevant P phrases

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

P264W Wash with water thoroughly after handling.

P301+312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P330 Rinse mouth.

## 16.2 Training advice

Regular safety training.

### 16.3 Recommended restriction on use

Only for professional user.

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

### 16.4 Further information

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

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### 16.5 Sources of key data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS

Regulation 487/2013/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress Regulation 669/2018/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress Regulation 1480/2018/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress TRGS 900, German engineering rules governing limits in air at work, updated 03/2019

SUVA .CH, Limits in air at work 2009, revised on 01.2009

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

### Revisions/Updates

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

2017-08 Adaption of new ethanol denaturation 2016/1867/EU

2017-11 Adaption of ECHA Registration dossier

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