

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

REF: 740412.10 NucleoBond Xtra Midi Plus (10) Page: 1/15

Printing date: 12.05.2021 Date of issue: 17.02.2021

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

#### 1.1 **Product identifier**

RFF 740412.10

Product name NucleoBond Xtra Midi Plus (10)

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 60 mL ELU 1 x 200 mL EQU 1 x 100 mL LYS 1 x 100 mL NEU 1 x 100 mL RES

1 x 0.6-100 mg RNase A (Iyo)

1 x 13 mL TRIS 1 x 100 mL WASH

#### 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 GHS08

Signal word **DANGER** 

Hazard identification Hazard classes/categories H226 Flam. Liq. 3 H315 Skin Irrit. 2 H319 Eye Irrit. 2 H334 Resp. Sens. 1

#### 2.1 Classification of the substance or mixture

60 mL ELU

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Signal word WARNING

Hazard identification Hazard classes/categories

H226 Flam. Liq. 3 H319 Eye Irrit. 2

200 mL EQU

Do not need labelling as hazardous

Signal word

No hazard class

100 mL LYS



Signal word WARNING

**Hazard identification** Hazard classes/categories

H315 Skin Irrit. 2 H319 Eye Irrit. 2

100 mL NEU

Do not need labelling as hazardous

Signal word

No hazard class

100 mL RES

Do not need labelling as hazardous

Signal word

No hazard class

0.6-100 mg RNase A (Iyo)



GHS08

Signal word **DANGER** 

Hazard identification Hazard classes/categories

H334 Resp. Sens. 1

13 mL TRIS

Do not need labelling as hazardous

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Signal word

No hazard class

100 mL WASH



Flam. Liq. 3

Signal word WARNING

Hazard identification Hazard classes/categories H226

#### 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). This labelling exemption is NOT valid for sensibilizing substances.





Signal word: WARNING

## 200 mL EQU

Do not need labelling as hazardous Signal word: -

### 100 mL LYS



Signal word: WARNING

### 100 mL NEU

Do not need labelling as hazardous Signal word: -

#### 100 mL RES

Do not need labelling as hazardous Signal word: -

### 0.6-100 mg RNase A (Iyo)



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## CHEREY-NAGE



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Signal word: DANGER

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

P261sh, P342+311

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

#### 13 mL TRIS

Do not need labelling as hazardous

#### 100 mL WASH



Signal word: WARNING

#### 2.3 Other hazards

### Possible hazards from physicochemical properties

In the case of pH values are less than 5 or higher than 9 then it is irritant. Flammable properties. ---

#### Information pertaining to particular risks to human and possible symptoms

Cause after impairments of health when ingested in small quantities.

Kit contains small amounts of enzymes: May cause allergy or asthma symptoms or breathing difficulties if inhaled. -

### Information pertaining to particular risks to the environment

PBT: not applicable vPvB: not applicable

Other hazards

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

#### 3.1 **Substances or 3.2 Mixtures**

60 ml FIU

Chemical: CAS No.: 67-63-0

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

Formula: C<sub>3</sub> H<sub>8</sub> O

Pseudonym: isopropanol, IPA, propan-2-ol

TSCA Inventory: listed

01-2119457558-25-XXXX REACH Reg. No.:

EC No.: 200-661-7 Indice No.: 603-117-00-0 RTECS: NT8050000 MFCD: 00011674

KE No.: KE-29363 Concentration: 10 - <15 %

acc. CLP (GHS): H226, Flam. Liq. 3, H319, Eye Irrit. 2

CAS No.: 7447-40-7 Chemical: potassium chloride

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

TSCA Inventory: listed

01-2119539416-36-xxxx REACH Reg. No.:

EC No.: 231-211-8

RTECS: TS8050000 MFCD: 00011360

KE No.: KE-29086 Concentration:

1 - < 10 %

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

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> 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.

200 mL EQU

potassium chloride Chemical: CAS No.: 7447-40-7

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

Formula: TSCA Inventory: listed

REACH Reg. No.: 01-2119539416-36-xxxx

231-211-8 EC No.:

MFCD: TS8050000 00011360 RTECS:

KE No .: KE-29086 Concentration: 1 - <10 %

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

100 mL LYS

CAS No.: 1310-73-2d Chemical: sodium hydroxide solution (diluted < 2 %)

Classification: H314, Skin Corr. 1B NaOH•H<sub>2</sub> O Formula: Pseudonym: diluted soda lye

TSCA Inventory: listed

REACH Reg. No.: 01-2119457892-27-xxxx

EC No.: 215-185-5 Indice No.: 011-002-00-6

WB4900000 RTECS: KE No .: KE-31487 Concentration: 0.5 - <1 %

acc. CLP (GHS): H315, Skin Irrit. 2, H319, Eye Irrit. 2

CAS No : 151-21-3 Chemical: dodecyl sulfate, sodium salt

H228, Flam. Sol. 1, H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H318, Eye Dam. 1, H332, Acute Classification:

Tox. 4 inh., H335, STOT SE 3, H412, Aquatic Chronic 3

Formula: C<sub>12</sub> H<sub>25</sub> NaO<sub>4</sub> S

Pseudonym: sodium lauryl sulfate, sulfuric acid monododecyl ester sodium salt

TSCA Inventory: listed

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

205-788-1 EC No.:

RTECS: WT1050000 MFCD: 00036175

KE No.: KE-21884 Concentration: 0.1 - <1 %

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

Chemical: indicator dye(s) CAS No .: -

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

TSCA Inventory: Concentration: < 0.10 %

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

100 mL NEU

CAS No.: acetate buffer solution Chemical:

Classification: No criteria for classification or naming of chemical not required. CH<sub>3</sub> COOH/K/Na•H<sub>2</sub> O Formula:

TSCA Inventory: all listed KE No.: listed Concentration: 25 - <45 %

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

100 mL RES

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CAS No .: -

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Chemical: chemicals/mixture < 1%

No criteria for classification or naming of chemical not required.

TSCA Inventory: all listed, <1% listed
Concentration: 0.1 - <1 %

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

0.6-100 mg RNase A (Iyo) Chemical: RNa

Classification:

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

Classification: H334, Resp. Sens. 1

Formula: Enzyme Comm. No. 3.1.27.5,origin: bovine pancreas (controlled population)
Pseudonym: Nuclease, ribo-

13 mL TRIS

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

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

TSCA Inventory: all listed, <1% listed
Concentration: 0.1 - <1 %

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

100 mL WASH

Chemical: ethanol (diluted < 20 %) CAS No.: 64-17-5d

(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

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

KE No.: KE-13217 Concentration: 5 - <20 % acc. CLP (GHS): H226, Flam. Lig. 3

Chemical: potassium chloride CAS No.: 7447-40-7

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

Formula: KCI TSCA Inventory: listed

REACH Reg. No.: 01-2119539416-36-xxxx

EC No.: 231-211-8

RTECS: TS8050000 MFCD: 00011360

KE No.: KE-29086 Concentration: 1 - <10 %

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

3.3 Remarks

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

List of 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. Take to a doctor, in a raised position if there are breathing difficulties.

4.1.1 After SKIN Contact

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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. 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

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. ---

### 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: 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

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### **SECTION 6: Accidental release measures**

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

Do not breathe vapours. 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

not necessary

### 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 hazardous chemicals. Clean any contaminated equipment and floors with plenty of water.
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. Use only in well-ventilated working areas.

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

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

Storage class (VCI): 3 Water hazard class (DE): 2

### 7.2.1 Requirements for stock rooms and containers

Keep original product packages tightly closed during handling and storage.

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#### 7.3 Specific end use(s)

Product for analytical use.

### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

60 mL ELU

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

[inh] 500 mg/m<sup>3</sup> DNEL = Derived No-Effect Level (for workers) 140.9 mg/L

200 ppm / 500 mg/m<sup>3</sup> TRGS 900 (DE):

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

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded SUVA(CH) MAK value: 200 ppm / 500 mg/m<sup>3</sup>

TRGS 903 (DE):

[Aceton B/b, U/b] 25 mg/L B blood, U urine, a no limitation, b end of exposition or shift

NIOSH: [TWA] 400 ppm / 980 mg/m<sup>3</sup>

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

[TWA] 400 ppm / 980 mg/m<sup>3</sup> OSHA:

Chemical: potassium chloride CAS No.: 7447-40-7

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

200 mL EQU

Chemical: potassium chloride CAS No : 7447-40-7

100 mL LYS

sodium hydroxide solution CAS No.: 1310-73-2d Chemical:

Chemical: dodecyl sulfate, sodium salt

NIOSH: not listed

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

OSHA: not listed

Chemical: indicator dye(s) CAS No : -

100 mL NEU

Chemical: acetate buffer solution CAS No.: -

100 mL RES

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

0.6-100 mg RNase A (Iyo)

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

13 mL TRIS

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

100 mL WASH

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

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

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

TRGS 900 (DE): 200 ppm / 380 mg/m³ 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>

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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/m<sup>3</sup>

CAS No.: 7447-40-7 Chemical: potassium chloride

#### 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 protection filter, class A/AX. No additional recommendations.

8.2.2

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

Recommended to avoid contamination with these hazards.

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.

Odor: alcoholic

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

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

60 mL ELU

Appearance: liquid Colour: colourless

pĤ: 8.5-9.5 Flash point: 30 °C Specific gravity: 1.04 g/cm<sup>3</sup>

200 mL EQU

Colour: colourless Odor: odorless Appearance: liquid

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

100 mL LYS

Appearance: liquid Colour: blue Odor: odorless

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

100 mL NEU

Appearance: liquid Colour colourless Odor: acetic

4-5 63 °C pH: Flash point: Specific gravity: 1.19 g/cm<sup>3</sup>

100 mL RES

Appearance: liquid Colour: colourless Odor: odorless

7.5 - 8.5Specific gravity: 1.01 g/cm<sup>3</sup>

0.6-100 mg RNase A (Iyo)

Colour colourless Odor: odorless Appearance: solid (lyoph.)

Solubility in water: 0-100 %

13 mL TRIS

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> Colour: colourless Odor: odorless Appearance: liquid

8-9 Specific gravity: 1.0 g/cm<sup>3</sup>

100 mL WASH

Appearance: liquid Colour: colourless Odor: alcoholic

6.5 - 7.531 °C Flash point: Specific gravity: 1.04 g/cm<sup>3</sup>

#### 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

No further data available.

10.4 Conditions to avoid

Not necessary. ---

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.

### 60 mL ELU

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

TSCA Inventory: listed California Proposition 65 List: not listed ACGIH:

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

Target Organs: Eyes, skin, respiratory system

irritation eyes, nose, throat; drowsiness, dizziness, headache; dry cracking skin; in animals: narcosis Symptoms:

Australia NICNAS: Canada CEPA 1999: DSL yes

Japan CSCL/PRTR: PAC yes, Japan PDSCL: -

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

South Korea TCCA:

Korea Exist.Chem.Inventory: KE-29363 LD50<sub>orl rat</sub>: 5045 mg/kg LC\_Loworl hmn: 3570 mg/kg LC50<sub>ihl rat</sub>: 164h g/m3 LD50<sub>drm rbt</sub>: 12.8 g/kg

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

Chemical: potassium chloride CAS No.: 7447-40-7

TSCA Inventory: listed Korea Exist.Chem.Inventory: KE-29086 2600 mg/kg LD50<sub>orl rat</sub>:

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# Safety Data Sheet

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

REF: 740412.10 NucleoBond Xtra Midi Plus (10) Page: 11/15

Printing date: 12.05.2021 Date of issue: 17.02.2021

> chemicals/mixture < 1% Chemical: all listed. <1%

TSCA Inventory: Korea Exist.Chem.Inventory: listed

200 mL EQU

Chemical: potassium chloride CAS No.: 7447-40-7

TSCA Inventory: listed Korea Exist.Chem.Inventory: KE-29086 LD50<sub>orl rat</sub>: 2600 mg/kg

100 mL LYS

Chemical: sodium hydroxide solution CAS No.: 1310-73-2d

TSCA Inventory: listed California Proposition 65 List: not listed

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

Target Organs: Eyes, skin, respiratory system Symptoms:

Japan CSCL/PRTR: not listed, Japan PDSCL: not listed Japan ISHL: listed ≥1,0%/≥1,0% SDS required

Korea Exist.Chem.Inventory: KE-31487 LD50<sub>orl rat</sub>: [< 1%] > 50 g/kg LD50<sub>drm rbt</sub>: not applicable LD50<sub>orl mus</sub>: [< 1%] > 4 g/kg

Chemical: dodecyl sulfate, sodium salt CAS No.: 151-21-3

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

Japan CSCL/PRTR: PRTR - Class I Designated Chemical Substance, Japan PDSCL: not listed

Japan ISHL: not listed South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-21884 LD50<sub>orl rat</sub>: 1288 mg/kg LC50<sub>inh rat</sub>: 3900<sub>1h</sub> mg/m<sup>3</sup> LD50<sub>drm rbt</sub>: 10 g/kg

Chemical: indicator dye(s) CAS No .: -

TSCA Inventory: all listed, <1%

100 mL NEU

Chemical: acetate buffer solution CAS No.: -

TSCA Inventory: all listed Korea Exist.Chem.Inventory: listed

100 mL RES

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

TSCA Inventory: all listed, <1%

Korea Exist.Chem.Inventory: listed

0.6-100 mg RNase A (Iyo)

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

TSCA Inventory listed Japan CSCL/PRTR: not listed Japan ISHL: not listed Korea Exist.Chem.Inventory: KE-30341 392 mg/kg LD50intraperitonaeal rat:

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.

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13 mL TRIS

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

TSCA Inventory: all listed, <1%

Korea Exist.Chem.Inventory: listed

100 mL WASH

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

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

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

Chemical: potassium chloride CAS No.: 7447-40-7

TSCA Inventory: listed Korea Exist.Chem.Inventory: KE-29086 LD50<sub>orl rat</sub>: 2600 mg/kg

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Following information is valid for pure substances.

60 mL ELU

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

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

LC50<sub>fish/96h</sub>: 1400 mg/L EC50<sub>daphnia/48h</sub>: 13.3 g/L IC50<sub>scenedesmus</sub> quadricauda/72h: >1000 mg/L EC10<sub>pseudomonas</sub> putita/16h: Water hazard class (DE): EC5: 1050 mg/L WGK No.: 0135

Dispersion coefficient(octanol-water): 0.05 Storage class (VCI):

Chemical: potassium chloride CAS No.: 7447-40-7

Water hazard class (DE):

Storage class (VCI):

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

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

200 mL EQU

Chemical: potassium chloride CAS No.: 7447-40-7

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

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## **ACHEREY-NAGEI**



CAS No.: 1310-73-2d

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100 mL LYS

sodium hydroxide solution Chemical:

LC50<sub>leuciscus idus/96h</sub>: 35-189 mg/L LC50<sub>fish/96h</sub>: 45.4 mg/L EC50<sub>daphnia/48h</sub>: >100 mg/L

**WGK No.: 0142** Water hazard class (DE): nwg

Storage class (VCI): 12-13

Chemical: dodecyl sulfate, sodium salt CAS No.: 151-21-3

LC50<sub>daphnia magna/48h</sub>: 6.3 mg/L 1.31-22.5 mg/L LC50<sub>fish/96h</sub>:

Water hazard class (DE): 2 Dispersion coefficient<sub>(octanol-water)</sub>: 1.6 Storage class (VCI): 12-13

indicator dye(s) CAS No .: -

Storage class (VCI):

100 mL NEU

acetate buffer solution Chemical. CAS No : -

Storage class (VCI): 12

100 mL RES

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

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

0.6-100 mg RNase A (Iyo)

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

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

13 mL TRIS

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

0.96 mg/L

Water hazard class (DE): Storage class (VCI):

100 mL WASH

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

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

LC50<sub>daphnia magna/48h</sub>: >100 g/L LC50pimephales promelas/96h 13.4-15.1 g/L LC50leuciscus idus/96h: [48h] 8.14 g/L LC50<sub>fish/96h</sub>: 13 g/L 9.3-14.2 g/L EC50<sub>daphnia/48h</sub>: [7d] 5000 mg/L IC50<sub>scenedesmus</sub> quadricauda/72h: EC10<sub>pseudomonas</sub> putita/16h : Water hazard class (DE): [EC5] 6500 mg/L WGK No.: 0096

Dispersion coefficient(octanol-water): -0.31 Storage class (VCI):

potassium chloride CAS No.: 7447-40-7

Water hazard class (DE): Storage class (VCI):

12.2 Persistence and degradability

not necessary

12.3 **Bioaccumulative potential** 

not necessary

12.4 Mobility in soil

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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).

Ε

#### 13.1 Waste treatment methods

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

## **SECTION 14: Transport information**

1993 14.2 UN proper shipping name: Flammable liquid, n.o.s. (2-propanol mixture) 14.1 UN number:

14.3 Class: 14.4 Packing group:

Road transport

PAX:

CAO:

Classification code: Limited Quantity:

5 L E 1

Tunnel restriction code: 640E Special instructions:

Excepted Quantity: Air transport

355 366

max. weight PAX:

max. weight CAO:

60 L 220 L

Α

Maritime transport FmS:

F-E, S-E

Storage category:

#### 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

### **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.

#### 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

Flammable liquid and vapour. H226 H315 Causes skin irritation. H319 Causes serious eye irritation.

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

16.1.2 List of relevant P phrases

+49 24 21 969-199

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

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> Avoid breathing dust/vapours. P261sh P280sh Wear protective gloves/eye protection.

P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342+311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

#### 16.2 Training advice

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.

#### 16.3 Recommended restriction on use

Only for professional user.

Look about employee restrictions for young people (f. ex. 94/33/EC or DE § 22 JArbSchG)! Look about employee restrictions for pregnant women and nursing women (f.ex. 92/85/EEC or for DE §§ 11-13 MuSchG 2017)! An individual package of this product or test kit has a moderate hazardous potential.

#### 16.4

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

TRGS 907, German engineering rules governing listing of substances and causes of sensitizations, updated November 2011

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

### Revisions/Updates

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

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