

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

REF: 740945.10 NucleoSpin Food (10) Page: 1/14

Printing date: 12.05.2021 Date of issue: 23.01.2020

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

#### 1.1 **Product identifier**

REF 740945.10

Product name NucleoSpin Food (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 10 mL C4 1 x 6 mL C5 1 x 13 mL CE 1 x 12 mL CF 1 x 6 mL CQW 1 x 1.8 mL PB

1 x 1-75 mg Proteinase K (Iyo)

#### 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 H302 Acute Tox. 4 oral H315 Skin Irrit. 2 H319 Eye Irrit. 2 H334 Resp. Sens. 1

#### 2.1 Classification of the substance or mixture

10 mL C4

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GHS07

Signal word WARNING

Hazard identification Hazard classes/categories

H302 Acute Tox. 4 oral H319 Eye Irrit. 2

6 mL C5

Do not need labelling as hazardous

Signal word

No hazard class

13 mL CE

Do not need labelling as hazardous

Signal word

No hazard class

12 mL CF

Do not need labelling as hazardous

Signal word -

No hazard class

6 mL CQW





HS02 GHS0

Signal word WARNING

Hazard identification Hazard classes/categories

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

1.8 mL PB

Do not need labelling as hazardous

Signal word -

No hazard class

1-75 mg Proteinase K (Iyo)





GHS07

GHS(

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> DANGER Signal word

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

#### 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.

### 10 mL C4



Signal word: WARNING

## 6 mL C5

Do not need labelling as hazardous Signal word: -

### **13 mL CE**

Do not need labelling as hazardous Signal word: -

### **12 mL CF**

Do not need labelling as hazardous Signal word: -

## 6 mL CQW





Signal word: WARNING

## 1.8 mL PB

Do not need labelling as hazardous Signal word: -

## 1-75 mg Proteinase K (Iyo)





GHS07 GHS08

Signal word: DANGER

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

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P261sh. P342+311

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

#### 2.3 Other hazards

### Possible hazards from physicochemical properties

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

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

Cause after oral intake, 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

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

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

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

Pseudonym: guanidinium chloride

TSCA Inventory: listed

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

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

KE No.: KE-18111 Concentration: 36 - < 50 %

acc. CLP (GHS): H302, Acute Tox. 4 oral, H319, Eye Irrit. 2

CAS No.: 9005-64-5 Chemical: polyoxyethylene sorbitan monolaurate (Tween® 20)

MECD:

00165986

US:

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

Formula: C<sub>58</sub> H<sub>114</sub> O<sub>26</sub>

Pseudonym: Sorbitan, monododecanoate, poly(oxy-1,2-ethanediyl) derivs. TSCA Inventory: listed

TR7400000 RTFCS:

KE No .: KE-31681

Concentration: 10 - <20 % acc. CLP (GHS): The criteria for classification are not fulfilled.

6 mL C5

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

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

TSCA Inventory: all listed. <1% KE No.: listed Concentration:

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

13 mL CE

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

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

TSCA Inventory: all listed, <1% KE No.: listed Concentration:

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

12 mL CF

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

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

TSCA Inventory: listed

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

EC No.: 205-788-1

RTECS: WT1050000 MFCD: 00036175

KE No .: KE-21884 Concentration: 1 - < 2.5 %

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

Chemical: chemicals/mixture < 2% CAS No .: -

Classification: No criteria for classification or naming of chemical not required. all listed, <2%

TSCA Inventory: KE No.: listed Concentration: 1 - < 2 %

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

6 mL CQW

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

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

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

guanidinium chloride Pseudonym: TSCA Inventory listed REACH Reg. No.: 01-2119977063-35-0005

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

KE No.: KE-18111 Concentration: 24 - <36 %

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

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

Pseudonym: ethyl alcohol, methylated spirit

TSCA Inventory:

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

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

KE No .: KE-13217 Concentration: 35 - <55 % acc. CLP (GHS): H226, Flam. Liq. 3

1.8 mL PB

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

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

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

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

EC No.: 200-289-5 Indice No.: n/a MA8050000 00004722 RTFCS MECD:

KE No .: KE-29297 Concentration: 10 - <50 %

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

1-75 mg Proteinase K (Iyo)

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CAS No.: 39450-01-6

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Chemical: proteinase K (origin: tritirachium album)

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

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

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

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

KE No.: not listed Concentration: 90 - <100 %

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

### 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

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

---

## **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.

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#### 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): 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**

#### Control parameters 8.1

10 mL C4

Chemical: guanidine hydrochloride 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

Chemical: polyoxyethylene sorbitan monolaurate (Tween® 20) CAS No.: 9005-64-5

6 ml C5

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

13 mL CE

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

12 mL CF

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

NIOSH: not listed

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

OSHA: not listed

Chemical: chemicals/mixture < 2% CAS No .: -

6 mL CQW

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

DNEL: [inh] 3.5 mg/m<sup>3</sup> DNEL = Derived No-Effect Level (for workers)

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

[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

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

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

 $\begin{array}{ccc} \text{PNEC}_{(\text{fresh water})}: & 0.96 \text{ mg/L} \\ \text{PNEC} = \text{Predicted No Effected Concentration} \end{array}$ 

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

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

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>

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

[TWA] Time-weighted aver age 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>

1.8 mL PB

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>: U.863 mg PNEC = Predicted No Effected Concent 0.885 mg/L 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>

1-75 mg Proteinase K (Iyo)

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

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

#### 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

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

Recommended to avoid contamination with these hazards.

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

10 mL C4

Appearance: liquid Colour: slightly yellow Odor: odorless

ρĤ: 3.5-4 Specific gravity: 1.15 g/cm<sup>3</sup>

6 mL C5

Appearance: liquid Colour colourless Odor: odorless

pH: Specific gravity: 1.00 g/cm<sup>3</sup>

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13 mL CE

Colour: colourless Odor: odorless Appearance: liquid

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

12 mL CF

Appearance: liquid Colour: colourless Odor: odorless

pH: 7.5 - 8.5Specific gravity: 1.02 g/cm<sup>3</sup>

6 mL CQW

Colour: colourless Odor: alcoholic Appearance: liquid

pH: 26 °C Flash point: Specific gravity: 1.0 g/cm<sup>3</sup>

1.8 mL PB

Appearance: liquid Colour: colourless Odor: alcoholic

Specific gravity: 1.11 g/cm<sup>3</sup>

1-75 mg Proteinase K (Iyo)

Colour: slightly grey Odor: odorless Appearance: solid (lyoph.)

#### 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

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.

## 10 mL C4

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

TSCA Inventory: listed California Proposition 65 List: not 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-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

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

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> polyoxyethylene sorbitan monolaurate (Tween® 20) Chemical: CAS No.: 9005-64-5

TSCA Inventory: listed Korea Exist.Chem.Inventory: KE-31681

6 mL C5

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

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

13 mL CE

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

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

**12 mL CF** 

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

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

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: chemicals/mixture < 2% CAS No.: -

TSCA Inventory: all listed, <2%

Korea Exist.Chem.Inventory: listed

6 mL CQW

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

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

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

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

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

TSCA Inventory: listed California 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\_Lowinl gpg: 21.9 g/m<sup>3</sup> LC Loworl hmn: 1400 mg/kg [4h] 39 g/m<sup>3</sup> LC50<sub>ihl mouse</sub>:

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> 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

1.8 mL PB

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

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

Jápan 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

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

1-75 mg Proteinase K (Iyo)

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

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

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

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

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

symptoms or breathing difficulties if inhaled.

## **SECTION 12: Ecological information**

## 12.1

Following information is valid for pure substances.

10 mL C4

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

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

 $LC50_{leuciscus\ idus/96h}$  : 1759 mg/L

[4d] 690-1850; [48h] 1758-2420 mg/L LC50fish/96h: EC50daphnia/48h: 70.2 mg/L

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

Storage class (VCI): 12

polyoxyethylene sorbitan monolaurate (Tween® 20) CAS No.: 9005-64-5

Water hazard class (DE):

Storage class (VCI): 10-11

6 mL C5

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

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

13 mL CE

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

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

12 mL CF

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CAS No.: 151-21-3

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> dodecyl sulfate, sodium salt Chemical:

LC50daphnia magna/48h: 6.3 ma/L  $LC50_{fish/96h}$  : 1.31-22.5 mg/L

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

CAS No .: -Chemical: chemicals/mixture < 2%

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

6 mL CQW

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

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

 $LC50_{leuciscus\ idus/96h}$  : 1759 mg/L

LC50<sub>fish/96h</sub>: [4d] 690-1850; [48h] 1758-2420 mg/L

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

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

Storage class (VCI): 12

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

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

LC50daphnia magna/48h: >100 mg/L LC50pimephales promelas/96h: 13400 - 15100 mg/L

LC50<sub>leuciscus</sub> idus/96h: [48h] 8140 mg/L LC50<sub>fish/96h</sub>: 13 g/L

 $EC50_{daphnia/48h}$ : 9.3-14.2 g/L [7d] 5000 mg/L IC50<sub>scenedesmus</sub> quadricauda/72h EC10pseudomonas putita/16h: [EC5] 6500 mg/L Water hazard class (DE): WGK No.: 0096

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

1.8 mL PB

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

PNEC (fresh water):
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<sub>24h</sub> g/L IC5<sub>7d</sub> >10 g/L EC5: >10 g/L IC50<sub>scenedesmus</sub> quadricauda/72h: EC10pseudomonas putita/16h Water hazard class (DE): 0

-1.76 Dispersion coefficient(octanol-water): Storage class (VCI): 10

1-75 mg Proteinase K (Iyo)

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

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

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

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#### 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

60 I

Α

220 L

#### 13.1 Waste treatment methods

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

## **SECTION 14: Transport information**

UN 1993 class 3 III, Excepted Quantities (≤30 mL/∑≤1 L) = ADR/ IATA E1

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

Tunnel restriction code:

max. weight PAX:

max. weight CAO:

Special instructions: 640E

14.3 Class: 14.4 Packing group: III

Road transport

Air transport

Classification code:

Limited Quantity: 5 L **Excepted Quantity:** 

355 366

PAX: CAO: Maritime transport EmS:

F-E, S-E

Storage category:

#### 14.5 **Environmental hazards**

none, contains only small quantities of hazardous substances

#### 14.6 Special precautions for user

#### 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.

#### 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. 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

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

P261sh Avoid breathing dust/vapours.

P264W Wash with water thoroughly after handling.

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> P280sh Wear protective gloves/eye protection.

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

P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P330 Rinse mouth

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 **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, 4th 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

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

2017-11 Adaption of ECHA Registration dossier

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