

# **Safety Data Sheet**

## according to Regulations REACh 1907/2006/EC

REF: 740402.50 NucleoSpin eDNA Water (50) Page: 1/20 Date of issue: 09.01.2024 Printing date: 07.02.2024 Version: 2.3.5.16

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

#### 1.1 **Product identifier**

RFF 740402.50

Product name NucleoSpin eDNA Water (50)

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 Liquid Proteinase K UFI: TTWV-43C9-R202-NTGN 1 x 50 mL Wash Buffer WB UFI: C6EV-03R2-0200-8PEW 2 x 1.5 mL Precipitation Buffer PREC UFI: MWWW-C370-M207-3DF0

1 x 125 mL Buffer DISSOLVE 1 x 30 mL Buffer ACID

UFI: 1A6V-H3H9-G20E-ACTR 1 x 25 mL RESU Buffer

1 x 13 mL Elution Buffer BE

1 x 1,5 mL Nucleo Trap Suspension

#### 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

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

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

Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service. DE: Gemeinsames Giftinformationszentrum (GGIZ)

99089 Erfurt tel. +49 361 730 730, < https://www.ggiz-erfurt.de>

You find our current versions of SDS in Internet:

<a href="http://www.mn-net.com/SDS">http://www.mn-net.com/SDS</a>

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

#### 2.0 Classification of the complete product according to Regulation (EC) 1272/2008





GHS05





GHS08



GHS09

Signal word **DANGER** 

Hazard identification	Hazard classes/categories	
H225	Flam. Liq. 2	
H302	Acute Tox. 4 oral	
H314	Skin Corr. 1 B	
H317	Skin Sens. 1	
H334	Resp. Sens. 1	
H411	Aquatic Chronic 2	

#### Classification of the substance or mixture according to Regulation (EC) 1272/2008 2.1

1.5 mL Precipitation Buffer PREC



Software: M2 V 6.1.5.0

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HS05 GHS

GHS07 GH

GHS09

Signal word DANGER

Hazard identification	Hazard classes/categories
H302	Acute Tox. 4 oral
H314	Skin Corr. 1 B
H317	Skin Sens. 1
H411	Aquatic Chronic 2

### 1,5 mL Liquid Proteinase K



GHS08

Signal word DANGER

Hazard identificationHazard classes/categoriesH334Resp. Sens. 1

### 25 mL RESU Buffer





GHS05

GHS07

Signal word	ANGER
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Hazard identification	Hazard classes/categories
H302	Acute Tox. 4 oral
H314	Skin Corr. 1 B
H412	Aquatic Chronic 3

### 50 mL Wash Buffer WB



GHS02

Signal word DANGER

Hazard identificationHazard classes/categoriesH225Flam. Liq. 2

### 1,5 mL Nucleo Trap Suspension

Do not need labelling as hazardous

Signal word

No hazard class



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13 mL Elution Buffer BE

Do not need labelling as hazardous

Signal word

No hazard class

125 mL Buffer DISSOLVE

Do not need labelling as hazardous

Signal word

No hazard class

30 mL Buffer ACID

Do not need labelling as hazardous

Signal word

No hazard class

List of H phrases: see section 16.2

### 2.2 Label elements according regulation (EC) 1272/2008

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.

### 1.5 mL Precipitation Buffer PREC





GHS05

GHS09

Signal word: DANGER

H314, H317

Causes severe skin burns and eye damage. May cause an allergic skin reaction.

P260sh, P264, P280sh, P303+361+353, P305+351+338, P310, P333+313, P405, P501

Do not breathe dust/vapours. Wash hands thoroughly after handling. Wear protective gloves/eye protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. If skin irritation or rash occurs: Get medical advice/attention. Store locked up. Dispose of contents/container to regulated waste treatment.

### 1,5 mL Liquid Proteinase K



GHS08

Signal word: DANGER

H334

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

P261sh, P284, P342+311, P501

Avoid breathing dust/vapours.[In case of inadequate ventilation] wear respiratory protection.lf experiencing respiratory symptoms: Call a POISON CENTER/doctor.Dispose of contents/container to regulated waste treatment.

### 25 mL RESU Buffer





GHS05

CHSU

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Signal word: DANGER

H314

Causes severe skin burns and eye damage.

P260sh, P264, P280sh, P303+361+353, P305+351+338, P310, P405, P501

Do not breathe dust/vapours. Wash hands thoroughly after handling. Wear protective gloves/eye protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Store locked up. Dispose of contents/container to regulated waste treatment.

#### 50 mL Wash Buffer WB



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Signal word: DANGER

#### 1,5 mL Nucleo Trap Suspension

Do not need labelling as hazardous

Signal word: -

#### 13 mL Elution Buffer BE

Do not need labelling as hazardous

Signal word: -

#### 125 mL Buffer DISSOLVE

Do not need labelling as hazardous

Signal word: -

### 30 mL Buffer ACID

Do not need labelling as hazardous

Signal word: -

### Label elements of the complete product









GHS02

2 GHS05

GHS08

GHS09

Signal word: DANGER H314, H317, H334

Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

P260sh, P264, P280sh, P284, P303+361+353, P305+351+338, P310, P333+313, P405, P501

Do not breathe dust/vapours. Wash hands thoroughly after handling. Wear protective gloves/eye protection. [In case of inadequate ventilation] wear respiratory protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. If skin irritation or rash occurs: Get medical advice/attention. Store locked up. Dispose of contents/container to regulated waste treatment.

### 2.3 Other hazards

### Possible hazards from physicochemical properties

Generally in the case of pH values are less than 2 or higher than 11.5 then it is corrosive. Flammable properties. For guanidine thiocyanate CAS 593-84-0: The properties H314, H332 "Causes severe skin burns and eye damage. Harmful if inhaled." are not relevant, because the mixture solution is buffered to pH 4-9 (see GHS Directive 1272/2008/EC Annex I, chapter 3.2.3.1.2.).

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

Causes varying degrees of acid burns on the skin, to the eyes and to the mucous membranes and wounds which do not heal quickly depending on the concentration, temperature and the exposure time. Vapours especially which steam from hot liquids and mist can have a severe irritant effect upon the eyes and the respiratory organs.

Cause after oral intake, skin contact, impairments of health when ingested in small quantities.

Kit contains small amounts of enzymes: May cause sensitization by skin contact, also in repeated contact of small amounts. May cause allergy or asthma symptoms or breathing difficulties if inhaled. In liquid form no hazard H334.

Information pertaining to particular risks to the environment



Software: M2 V 6.1.5.0

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Should not be released into the environment.

PBT: not applicable vPvB: not applicable

Possible endocrine disrupting effects

no data available

Other hazards

It is not possible to declare fine dust (< 12 µm) as dangerous or not. We recommend not to inhale product dust. Dust may cause damage of the inhalatory system if inhaled over a longer period.

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

### 3.1 Substances or 3.2 Mixtures

1.5 mL Precipitation Buffer PREC

Substance name: 1-dodecylpyridiniumchloride

CAS No.: 104-74-5

Substance rating: H301, Acute Tox. 3 oral, H312, Acute Tox. 4 derm., H317, Skin Sens. 1, H319, Eye Irrit. 2, H410,

Aquatic Chronic 1

Formula: C <sub>17</sub> H <sub>30</sub> CIN REACH Reg. No.: -

EC No.: 203-232-2 Concentration: 5 - <16,5 %

acc. CLP (GHS): H302, Acute Tox. 4 oral, H314, Skin Corr. 1 B, H317, Skin Sens. 1, H411, Aquatic Chronic 2

1,5 mL Liquid Proteinase K

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

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

Pseudonym (de): Endopeptidase K

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

Concentration: 1 - <3 %

acc. CLP (GHS): H334, Resp. Sens. 1

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

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

Formula: C 3 H 8 O 3
Pseudonym (de): 1,2,3-Propantriol
REACH Reg. No.: 01-2119471987-18-xxxx

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

Concentration: 10 - <50 %

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

25 mL RESU Buffer

Substance name: guanidinium thiocyanate

CAS No.: 593-84-0

Substance rating: H302, Acute Tox. 4 oral, H312, Acute Tox. 4 derm., H314, Skin Corr. 1 B, H332, Acute Tox. 4 inh.,

H412, Aquatic Chronic 3

Formula: C 2 H 6 N 4 S
Pseudonym (de): Guanidiniumrhodanid
REACH Reg. No.: 01-2120735072-65-0001

EC No.: 209-812-1 Indice No.: 615-004-00-3 Concentration: 45 - <60 % H302, Acute Tox. 4 oral, H314, Skin Corr. 1 B, H412, Aquatic Chronic 3



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## CHEREY-NAGE



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50 mL Wash Buffer WB

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

(denatured with 1% 2-butanone)

Substance rating: H225, Flam. Liq. 2 Formula:

C <sub>2</sub> H <sub>6</sub> O; C <sub>2</sub> H <sub>5</sub> OH Äthylalkohol, vergällter Spiritus Pseudonym (de): REACH Reg. No.: 01-2119457610-43-xxxx

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

Concentration: 55 - <75 % acc. CLP (GHS): H225, Flam. Liq. 2

1,5 mL Nucleo Trap Suspension

Substance name: silica 7631-86-9 CAS No.:

Substance rating: No criteria for classification or naming of chemical not required. SiO  $_{\rm 2}$ 

Formula:

Silicagel, Siliziumdioxyd Pseudonym (de): 01-2119379499-16-0166 REACH Reg. No.:

EC No.: 231-545-4 Concentration: 10 - <20 %

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

Substance name: water CAS No.: 7732-18-5

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

Formula:  $H_2O$ 

REACH Reg. No.: exempt, Annex IV EC No.: 231-791-2 Concentration: 70 - <90 %

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

13 mL Elution Buffer BE

Substance name: chemicals/mixture until 1%

CAS No.:

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

0,1 - <1 % Concentration:

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

125 mL Buffer DISSOLVE

Substance name: chemicals/mixture until 1%

CAS No.:

No criteria for classification or naming of chemical not required. 0,1 - <1 %Substance rating:

Concentration:

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

30 mL Buffer ACID

Substance name: acetate buffer solution CAS No.:

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

Formula: CH 3 COOH/K/Na•H 2 O

Concentration: 5 - <15 %

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



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#### 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 16.2.

### **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. Remove contaminated clothing. Show product package, packing insert and this material safety data sheet to the doctor. Take to a doctor, in a raised position if there are breathing difficulties.

#### 4.1.1 After SKIN Contact

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

### 4.1.2 After EYE Contact

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

#### 4.1.3 After INHALATION of vapours

After inhalation of foam or vapour fresh air should be inhaled. Keep airways free. If vomiting and if insensible place patient in recovery position and keep airways free. Administer a Dexamethasone spray as soon as possible. Ensure quiet, warmth, and provide resuscitation if necessary. In the event of respiratory distress ensure that the patient inhales oxygen. Secure the breathing, heart and circulatory function. ---

#### 4.1.4 After ORAL Intake

After oral intake lots of water with activated charcoal supplement should be drunk after it has been ingested. Do not induce vomiting under any circumstances. Do not make any efforts to neutralise it. Contact medical advice for possible consequences.

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

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Chronic effects: Repeated contact, even in small amounts, can lead to sensitization. Rapid penetration and destruction of the skin. Especially in the heated form. Causes severe skin burns and eye damage.

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

CORROSIVE DAMAGE: After SKIN CONTACT rinse with water for a long time. Efforts to neutralise the substance can frequently make matters worse. Apply glucocorticosteroides following inflammatory reactions. After EYE CONTACT rinse immediately with plenty of water for a long time. Eyelid convulsion measures. Name the corrosive chemical. Further treatment must to be carried out by an eye specialist. After INTAKE administer aluminium oxide drug suspensions. Administer a prophylaxis to counter pulmonary oedema following the INGESTION of corrosive aerosols. In the event of RESPIRATORY DISTREES ensure that the patient inhales oxygen. Inform patient respectively further measures and the possibility of long-term damages. ---

## **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

### 5.1.1 Suitable extinguishing media

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

### 5.1.2 Unsuitable extinguishing media

no data available

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

DANGER: Highly flammable (GHS regulation). Forms 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. Spray any vapours released with water. Retent fire water. Use only acid-resistant safety equipment.

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

### 5.4 Additional information

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



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### SECTION 6: Accidental release measures

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

Do not breathe vapours. Wear suitable protective gloves (see 8.2.2). Wear eye protection, respectively face protection. 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**

Should not be released into the environment.

PBT: not applicable vPvB: not applicable

#### 6.3 Methods and material for containment and cleaning up

Bind any escaping liquid with inert absorbent. And dispose in accordance to local regulations for the disposal of 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

see information in section 5.4,7,8 and 13

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

#### 7.1 Precautions for safe handling

Handling in accordance with the test instruction, that comes with the product. Use only in well-ventilated working areas.

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

Safe storage is guaranteed in the original packaging from MACHEREY-NAGEL. Storage class (German chemical industry): see chapter

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

#### Requirements for stock rooms and containers 7.2.1

Keep original product packages tightly closed during handling and storage. Use inbreakable container for transport of glass bottles.

#### 7.3 Specific end use(s)

Product for analytical use.

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

#### 8.1 Control parameters

### 1,5 mL Nucleo Trap Suspension

Chemical: water CAS No.: 7732-18-5

Chemical: silica CAS No.: 7631-86-9

[inh] 4 mg/m<sup>3</sup> DNFI · DNEL = Derived No-Effect Level (for workers) PNEC (fresh water): PNEC = Predicted No Effected Concentration

TRGS 900 (DE): 1,25 A / 4 E mg/m<sup>3</sup>

Short-term exposure factor: Y

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

SUVA(CH) MAK value: 4 e mg/m<sup>3</sup>

NIOSH:

l: Occupational Carcinogen List yes; [TWA] 6 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] 20 mppcf / 80 mg/m<sup>3</sup> OSHA:

13 mL Elution Buffer BE

CAS No · chemicals/mixture until 1% Chemical:

125 mL Buffer DISSOLVE

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



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1,5 mL Liquid Proteinase K

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

[inh] 56 mg/m<sup>3</sup> DNEL: DNEL = Derived No-Effect Level (for workers) PNEC (fresh water): U.885 mg/L
PNEC = Predicted No Effected Concentration

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

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/m3

CAS No : 39450-01-6 proteinase K, liquid Chemical:

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

30 mL Buffer ACID

Chemical: acetate buffer solution CAS No .: -

25 mL RESU Buffer

guanidinium thiocyanate Chemical: CAS No.: 593-84-0

DNFI · [inh] 1092 µg/m<sup>3</sup> DNEL = Derived No-Effect Level (for worke PNEC (fresh water): 42.4 µg/L 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

1.5 mL Precipitation Buffer PREC

CAS No.: 104-74-5 Chemical: 1-dodecylpyridiniumchloride

50 mL Wash Buffer WB

CAS No : 64-17-5 Chemical: ethanol

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

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

200 ppm / 380 mg/m³ E/e respirable TRGS 900 (DE):

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/m³ (age 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>

#### 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. Use for regularly working with dry powders a dust mask or a dust protection filter, class P3. No additional recommendations.

#### 8.2.2 Skin protection / 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 Eye / Face Protection

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

#### 8.2.4 Skin protection

Recommended to avoid clothing damage, and 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.



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#### 8.2.6 Thermal hazards

no data available

#### Limitation and monitoring of environmental exposure 8.3

Do not release product into environment.

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

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

### 1,5 mL Nucleo Trap Suspension

a) State of aggregation.	iiquia
b) Colour:	colourless
c) Odor:	odorless
d) Melting point:	no data available
e) Boiling point:	no data available
f) Flammability:	no data available
g) Explosive limits (lower / upper):	no data available
h) Flash point:	no data available
i) Flashing temperature:	no data available
j) Decomposition temperature:	no data available
k) pH value:	no data available
I) Kinematic viscosity:	no data available
m) Solubility in water:	no data available
n) Dispersion coefficient (K <sub>o/w</sub> ):	no data available
o) Vapour pressure (20°C):	no data available
p) Specific gravity:	no data available
q) Relative vapour density (air=1):	no data available
r) Particle size:	no data available

### 13 mL Elution Buffer BE

a) State of aggregation:	liquid
b) Colour:	colourless
c) Odor:	odorless
d) Melting point:	no data available
e) Boiling point:	no data available
f) Flammability:	no data available
g) Explosive limits (lower / upper):	no data available
h) Flash point:	no data available
i) Flashing temperature:	no data available
j) Decomposition temperature:	no data available
k) pH value:	8-9
Kinematic viscosity:	no data available
m) Solubility in water:	no data available
n) Dispersion coefficient (K <sub>o/w</sub> ):	no data available
o) Vapour pressure (20°C):	no data available
p) Specific gravity:	1.0 g/cm³
q) Relative vapour density <sub>(air=1)</sub> :	no data available
r) Particle size:	no data available

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125 mL Buffer DISSOLVE	
a) State of aggregation:	liquid
b) Colour:	
c) Odor:	
d) Melting point:	no data available
e) Boiling point:	no data available
f) Flammability:	no data available
g) Explosive limits (lower / upper):	no data available
h) Flash point:	no data available
i) Flashing temperature:	no data available
j) Decomposition temperature:	no data available
k) pH value:	no data available
Kinematic viscosity:	no data available
m) Solubility in water:	no data available
n) Dispersion coefficient (K <sub>o/w</sub> ):	no data available
o) Vapour pressure (20°C):	no data available



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no data available

p) Specific gravity: no data available q) Relative vapour density (air=1): no data available r) Particle size: no data available

#### 1,5 mL Liquid Proteinase K

a) State of aggregation: liquid b) Colour: colourless odorless c) Odor: d) Melting point: no data available e) Boiling point: no data available f) Flammability: no data available g) Explosive limits (lower / upper): h) Flash point: no data available no data available i) Flashing temperature: no data available j) Decomposition temperature: no data available k) pH value: 7-8 I) Kinematic viscosity: no data available m) Solubility in water: 0-100 % n) Dispersion coefficient (K o/w ): no data available o) Vapour pressure (20°C): no data available p) Specific gravity: 1.1 g/cm<sup>3</sup> q) Relative vapour density (air=1): no data available

r) Particle size:

30 mL Buffer ACID a) State of aggregation: liquid

b) Colour: c) Odor:

d) Melting point: no data available e) Boiling point: no data available f) Flammability: no data available g) Explosive limits (lower / upper): no data available h) Flash point: no data available i) Flashing temperature: no data available j) Decomposition temperature: no data available k) pH value: no data available I) Kinematic viscosity: no data available m) Solubility in water: no data available n) Dispersion coefficient (K o/w ): no data available o) Vapour pressure (20°C): no data available no data available p) Specific gravity: q) Relative vapour density (air=1): no data available r) Particle size: no data available

### 25 mL RESU Buffer

a) State of aggregation: liquid b) Colour: colourless c) Odor: odorless no data available d) Melting point: e) Boiling point: no data available f) Flammability: no data available g) Explosive limits (lower / upper): h) Flash point: no data available no data available i) Flashing temperature: no data available j) Decomposition temperature: no data available k) pH value: 6.5-7.5 I) Kinematic viscosity: no data available m) Solubility in water: no data available n) Dispersion coefficient (K o/w ): no data available o) Vapour pressure (20°C): no data available p) Specific gravity: 1.13 g/cm<sup>3</sup> q) Relative vapour density (air=1): no data available r) Particle size: no data available



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1.5 mL Precipitation Buffer PREC

a) State of aggregation: liquid

b) Colour:

c) Odor:

d) Melting point: no data available e) Boiling point: f) Flammability: no data available no data available g) Explosive limits (lower / upper): no data available h) Flash point: no data available i) Flashing temperature: no data available j) Decomposition temperature: no data available k) pH value: no data available I) Kinematic viscosity: no data available m) Solubility in water: no data available n) Dispersion coefficient (K o/w ): no data available o) Vapour pressure (20°C): no data available p) Specific gravity: no data available q) Relative vapour density (air=1): no data available r) Particle size: no data available

50 mL Wash Buffer WB

a) State of aggregation: liquid b) Colour: colourless c) Odor: alcoholic

d) Melting point: no data available e) Boiling point: no data available f) Flammability: no data available g) Explosive limits (lower / upper): no data available

h) Flash point: 10 °C

no data available

i) Flashing temperature: j) Decomposition temperature: no data available

k) pH value: 7-8

I) Kinematic viscosity: no data available m) Solubility in water: no data available n) Dispersion coefficient (K o/w ): no data available o) Vapour pressure (20°C): no data available p) Specific gravity: 0.91 g/cm<sup>3</sup>

no data available q) Relative vapour density (air=1): r) Particle size: no data available

#### 9.2 Other information

#### 9.2.1 Information on physical hazard classes

no data available

#### 9.2.2 Other safety-related parameters

No data is available for the other parameters for the mixtures, since no registration and no chemical safety report is required.

Substances are highly volatile and form flammable gas-air mixtures. Substances are highly corrosive.

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

#### 10.1 Reactivity

no further data available.

#### 10.2 Chemical stability

no known instability.



Software: M2 V 6.1.5.0

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### 10.3 Possibility of hazardous reactions

Can react violently with organic material. Note: Can form very reactive substances with oxidizing agents. Possible: &H:EUH031& No further data available.

#### 10.4 Conditions to avoid

No more required.

### 10.5 Incompatible materials

no additional data available

### 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 the hazard classes according regulation (EC) 1272/2008

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

1,5 mL Nucleo Trap Suspension

Chemical: water CAS No.: 7732-18-5

TSCA Inventory: listed
Korea Exist.Chem.Inventory: KE-35400
LD50 orl rat: > 90000 mg/kg

Chemical: silica CAS No.: 7631-86-9

TSCA Inventory: listed California Proposition 65 List: not listed

Exposure Routes: inhalation, skin and/or eye contact Target Organs: Eyes, respiratory system symptoms: irritation eyes, pneumoconiosis

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-31032
LD50 orl rat: 5000 mg/kg
LC50 ihl rat: 2,19-5,01 mg/L/4H

TRGS 905 (DE): R F C

13 mL Elution Buffer BE

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

TSCA Inventory: all listed, <1%

Korea Exist.Chem.Inventory: listed

125 mL Buffer DISSOLVE

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

TSCA Inventory: all listed, <1%

Korea Exist.Chem.Inventory: listed

1,5 mL Liquid Proteinase K

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

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

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

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

Japan ISHL: not listed Korea Exist.Chem.Inventory: KE-29297 LD50 <sub>orl rat</sub>: 12600 mg/kg

TRGS 905 (DE):  $R_F C$ 



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

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

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

30 mL Buffer ACID

Chemical: acetate buffer solution CAS No.: -

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

25 mL RESU Buffer

Chemical: guanidinium thiocyanate CAS No.: 593-84-0

TSCA Inventory: listed California Proposition 65 List: not listed Australia NICNAS: 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: not listed
LD50 orl rat: 593 mg/kg
LC50 ihl rat: 5,319 mg/L/4H

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

1.5 mL Precipitation Buffer PREC

Chemical: 1-dodecylpyridiniumchloride CAS No.: 104-74-5

TSCA Inventory: listed

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

Japan ISHL: not listed Korea Exist.Chem.Inventory: KE-13023 LD50 orl rat: 203 mg/kg

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

sensitization by skin contact, also in repeated contact of small amounts.

50 mL Wash Buffer WB

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 orl rat:
 6200 mg/kg

 LC\_Low ihl gpg:
 21,900 mg/L

 LC\_Low orl hmn:
 1400 mg/kg

 LC50 ihl mus:
 123,4 mg/L/4H

 LC50 ihl rat:
 115,9-133,8 mg/L/4H

LD50 <sub>orl mus</sub>: 3450 mg/kg

TRGS 905 (DE): K5, M5, R F C

### 11.2 Other hazards

Possible endocrine disrupting effects

no data available

Other information



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## CHEREY-NAGE



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no additional data available

## **SECTION 12: Ecological information**

#### 12.1 **Toxicity**

Following information is valid for pure substances.

1,5 mL Nucleo Trap Suspension

CAS-Nr.: 7732-18-5 Substance name:

Substance name: silica CAS-Nr.: 7631-86-9

PNEC (fresh water): PNEC = Predicted No Effected Concentration = concentration at which no effect on the environment is expected

LC50 fish/96h: [4d] 1033-1289 mg/L EC50 daphnia/48h: 512; [4d] 2600 mg/L EC50 chlorella vulgaris/5d : Water hazard class (DE): [4d] 218 mg/L

nwg WGK No.: 0849

Storage class (VCI): 13

13 mL Elution Buffer BE

Substance name: chemicals/mixture until 1% CAS-Nr.: -

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

125 mL Buffer DISSOLVE

CAS-Nr.: -Substance name: chemicals/mixture until 1%

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

1,5 mL Liquid Proteinase K

glycerole Substance name: CAS-Nr.: 56-81-5

PNEC (fresh water): 0.885 mg/L
PNEC = Predicted No Effected Concentration = concentration at which no effect on the environment is expected

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

Water hazard class (DE): Storage class (VCI): 10

CAS-Nr.: 39450-01-6 Substance name: proteinase K, liquid

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

30 mL Buffer ACID

Substance name: acetate buffer solution CAS-Nr.: -

Storage class (VCI):

25 mL RESU Buffer

Substance name: guanidinium thiocyanate CAS-Nr.: 593-84-0

Harmful to aquatic life with long lasting effects. Do not release into the environment.

Environmentally hazardous substances/mixtures do not have to be labeled with P-phrases up to 125 mL (EU 1272/2008 Annex I

Paragraph 1.5.2).

PNEC (fresh water):

42.4 µg/L

PNEC = Predicted No Effected Concentration = concentration at which no effect on the environment is expected

[4d] 89.1 mg/L LC50 fish/96h: EC50 daphnia/48h: 42.4 mg/L 130 mg/L IC50 scenedesmus quadricauda/72h: EC10 pseudomonas putita/16h : Water hazard class (DE): [10d] 200 mg/L

3 12 Storage class (VCI):

### 1.5 mL Precipitation Buffer PREC



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> 1-dodecylpyridiniumchloride Substance name:

CAS-Nr.: 104-74-5

Toxic to aquatic life with long lasting effects. Do not release into the environment.

Environmentally hazardous substances/mixtures up to 125 mL do not have to be labeled with H and P statements (EU 1272/2008

Annex I Paragraph 1.5.2).

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

50 mL Wash Buffer WB

Substance name: CAS-Nr.: 64-17-5 ethanol

PNEC (fresh water): 0.96 mg/L
PNEC = Predicted No Effected Concentration = concentration at which no effect on the environment is expected

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

EC10 pseudomonas putita/16h: Water hazard class (DE): [EC5] 6500 mg/L WGK No.: 0096

Storage class (VCI): 3

#### 12.2 Persistence and degradability

#### 12.3 **Bioaccumulative potential**

1.5 mL Liquid Proteinase K

Substance name: CAS-Nr.: 56-81-5 glycerole

Dispersion coefficient (K o/w ): -1,76

25 mL RESU Buffer

Substance name: guanidinium thiocyanate CAS-Nr.: 593-84-0

Dispersion coefficient (K o/w): -1,11 pH 5.1

50 mL Wash Buffer WB

ethanol CAS-Nr.: 64-17-5 Substance name:

Dispersion coefficient (K o/w): -0,31

#### 12.4 Mobility in soil

#### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### 12.6 **Endocrine disrupting properties**

no data available

#### 12.7 Other adverse effects

no additional data available

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

Do not collect in acidic waste. May form toxic gases.

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. Empty containers of corrosive reagents prior to disposal, rinse with water.



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### **SECTION 14: Transport information**

14.1 UN number: 1993

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

E 2

14.3 Class: 3

14.4 Packing group:

Road transport ADR

Classification code: F1

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

Air transport IATA DGR
Limited Quantity:

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

Excepted Quantity:

Maritime transport IMDG

EmS: F-E, S-E Staukategorie: B

#### 14.5 Environmental hazards

none, contains only small quantities of hazardous substances, contains only small amounts of these substances

### 14.6 Special precautions for user

not necessary

### 14.7 Carriage in bulk by sea in accordance with IMO instruments

Not applicable.

## **SECTION 15: Regulatory information**

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

Dangerous Substances Protection Act (DE: Chemikaliengesetz - ChemG), Aug 2013, Stand: Okt 2020

Ordinance on protection against dangerous substances (E: Gefahrstoffverordnung - GefStoffV), Nov 2010, Stand: Mrz 2017

TRGS 201, Classification and labeling of activities involving hazardous substances, Feb 2017

TRGS 220, National aspects when preparing safety data sheets, Jan 2017

TRGS 400, Risk assessment for activities involving hazardous substances, Jul 2017

TRGS 401, Skin contact hazard - identification, assessment, action, Jun 2008, status: Feb 2011

BekGS 408, Application of the GefStoffV and the TRGS with the entry into force of the CLP regulation, December 2009, status: Jan 2012

TRGS 500, Protective measures, Mai 2008

TRGS 510, Storage of hazardous substances in portable containers from March 2013, status: Oct 2015

Wasserhaushaltsgesetz - WHG, Section 3 Handling substances hazardous to water, Jul 2009, status: Aug 2016

MN leaflet/instructions for use, also at www.mn-net.com

If necessary, observe other country-specific regulations.

### 15.2 Chemical safety assessment

not necessary for these small amounts

### **SECTION 16: Other information**

## 16.1 Changes compared to the last version

Between versions 2.3.5.16 and 2.2.2.2 following changes were applied: - 1 product component data corrected - 3 composition data corrected - 14 substance data corrected

### 16.2 List of H and P phrases

## 16.2.1 List of relevant H phrases

H Between versions 2.3.5.16 and 2.2.2.2 following changes were applied: - 1 product component data

corrected - 3 composition data corrected - 14 substance data corrected

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

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



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> Toxic to aquatic life with long lasting effects. H411 H412 Harmful to aquatic life with long lasting effects.

16.2.2 List of relevant P phrases

> P260sh Do not breathe dust/vapours. P264 Wash hands thoroughly after handling. P280sh Wear protective gloves/eye protection.

P284 [In case of inadequate ventilation] wear respiratory protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to P303+361+353 P305+351+338

do. Continue rinsing.

Immediately call a POISON CENTER/doctor. P310

P333+313 If skin irritation or rash occurs: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container to regulated waste treatment.

#### 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 Sources of key data

KÜHN, BIRETT, Leaflets on hazardous materials, 2021

Directive 97/69/EG, mineral fibersDirective 1999/92/EG Minimum requirements to improve the safety and health protection of workers at risk from potentially explosive atmospheres

TRGS 521, German engineering regulations for rehabilitation, repair and demolition with old mineral wool, February 2008, TRGS 521

"Mineral fibres" in the new versionSUVA .CH, limit values in the air at work 2009, revised on 01/2009

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

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

TRGS 559, German technical rules for mineral dusts from July 2011TRGS 907, German technical rules for listing substances and causes of sensitization, updated November 2011 Regulation 487/2013/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (4th ATP)

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

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

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

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

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

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

Regulation 878/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1907/2006/EG
Regulation 1182/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (15th ATP)

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

Regulation 849/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (17th ATP) Regulation 692/2022/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (18th ATP)

### revisions/updates

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

2014-04 adjustment according Regulation 487/2013/EU 2016-03 adjustment according Regulation 1221/2015/EU

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

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

#### 16.5 Further information

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#### 16.6 Legend / Abbreviations

according acc:

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

Act:

BAT: biological workplace tolerance value



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# **Safety Data Sheet**

## according to Regulations REACh 1907/2006/EC

REF: 740402.50 NucleoSpin eDNA Water (50) Page: 19/20 Date of issue: 09.01.2024 Printing date: 07.02.2024 Version: 2.3.5.16

CAO: Cargo Aircraft Only

Carc: carcinogen

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging regulation

CMR: carcinogen, mutagen, reproduction toxic

corrosive Corr:

chemical oxigen demand COD:

CSCL: Chemical Substance Control Law (Jp)

Dam:

DNEL: Derived No-Effect Level (for workers)

derm: dermal dog: EC10: dog

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

EC: **European Community** 

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

**European Union** FU: fish (not spezified) fish:

GHS: Global Harmonized System of Classification and Labeling of Chemicals

gpg: ICAO: International Civil Aviation Organization

ihl: inhaled

IMDG: International Maritime Dangerous Goods Code

intrav: intravenous ipt: intraperitonaeal

iSHL: Industrial Safety and Health Law (Jp)

LC50: letale concentration 50%

LD50: letale dosis 50%

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

Met: Metall mouse mus: Muta: mutagen

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

NRD: Non-rapidly degradable

onchorhynchus mykiss: fish, rainbow trout

orl: oral

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

pH:

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

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

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

RD. rapidly degradable

RE: repeated

REACh: Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number REF:

Reg.No.:

rRegistration number Repr: harmful to reproduction

Resp: respiratory

RIP: **REACH Implementations Projects** 

scu: sub cutan SDS: safety data sheet sensitisation Sens: STFI: short term exposure limit

Specific Target Organ Toxicity STOT: SVHC: Substance of Very High Concern

t/a: tons per year

TCCA: Toxic Chemicals Control Act (S. Korea)

toxic

Tox: TSCA: The Toxic Substances Control Act (US)

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



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vPvB: very persistent, very bioaccumulating substance

## 16.7 Training advice

Regular safety training. Multiple safety training of staffs about danger and protection by using hazards in working area. Additionally training and introduction of staffs for using these products.

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