

Safety Data Sheet

SDS acc. Hazard Communication Standard

 REF: 744601.4
 NucleoMag DNA Swab (4x96)
 Page: 1/18

 Printing Date: 04.04.2023
 Date of Issue: 03.03.2023
 Version: 2.2.4.11

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

1.1 Product Identifier / Product Name

REF 744601.4 Product Name NucleoMag DNA Swab (4x96)

> 1 x 60 mL MB6 1 x 125 mL FLB 4 x 1.5 mL B-Beads 1 x 300 mL MB3

 1 x 300 mL MB3
 UFI: 8X9V-S3GY-C206-3Q9F

 1 x 300 mL MB4
 UFI: H0AV-936C-N20Q-S1VH

 3 x 4.5 mL Liquid Proteinase
 UFI: TTWV-43C9-R202-NTGN

 2 x 110 mL MBL2
 UFI: E6QV-536R-420Y-QHMP

1.2 Relevant identified Uses of the Substance or Mixture and Uses advised against

Relevant identified uses

Product for analytical use.

Exposure Scenario Classification according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0 The exposure scenario is integrated into sections 1-16.

Uses advised against

not described

1.3 Details of the Supplier and of the Safety Data Sheet

Manufactured by:

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

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

1.4 Emergency Telephone Number

Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service. USA: American Association Of Poison Control Centers

Rockville, MD 20857. tel. 1-800-222-1222, https://www.poisonhelp.org

DE: Gemeinsames Giftinformationszentrum (GGIZ)

99089 Erfurt tel. +49 361 730 730

https://www.ggiz-erfurt.de

You find our current versions of SDS in Internet:

http://www.mn-net.com/SDS>

SECTION 2: Hazard(s) Identification

2.0 Classification of the complete Product





GHS07



GHS02

Resp. Sens. 1

GHS08

Signal Word DANGER

Hazard IdentificationHazard Classes/CategoriesH226Flam. Liq. 3H302Acute Tox. 4 oral

2.1 Classification of the substance or mixture

4.5 mL Liquid Proteinase

H334



Software: M2 V 6.1.1.5

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REF: 744601.4 NucleoMag DNA Swab (4x96) Page: 2/18 Printing Date: 04.04.2023 Date of Issue: 03.03.2023 Version: 2.2.4.11



Signal Word **DANGER**

Hazard Identification Hazard Classes/Categories

H334 Resp. Sens. 1

125 mL FLB

Do not need labelling as hazardous

Signal Word

No Hazard Class

Signal Word

110 mL MBL2





WARNING

Hazard Identification Hazard Classes/Categories

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

300 mL MB3





Signal Word WARNING

Hazard Identification Hazard Classes/Categories H226 Flam. Liq. 3 H302 Acute Tox. 4 oral

300 mL MB4





GHS07

Signal Word WARNING

Hazard Identification Hazard Classes/Categories

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

60 mL MB6

Do not need labelling as hazardous



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SDS acc. Hazard Communication Standard

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 Page: 3/18

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Signal Word

No Hazard Class

1.5 mL B-Beads

Do not need labelling as hazardous

Signal Word

No Hazard Class

List of H phrases: see section 16.2

2.2 Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

According the implementation of GHS immediate packages only must be labelled with product identificator(s), GHS symbol(s), signal word, manufacturer name and phone number (OSHA's interpretation of HCS 2012). Harmful chemicals/mixtures with signal word: **WARNING** and highly flammable chemicals/mixtures must not be labelled with H and P phrases **until 125 mL** (EU 1272/2008 Annex I - 1.5.2) / **until 100 mL** (Canada WHMIS 2015). This labelling exemption does not apply to U.S.A. This labelling exemption is NOT valid for sensibilizing substances.

4.5 mL Liquid Proteinase



GHS08

Signal Word: DANGER

H334

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

P261sh, P342+311

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

125 mL FLB

Do not need labelling as hazardous Signal Word: -

110 mL MBL2





GHS02

GHS07

Signal Word: WARNING

300 mL MB3





GHS02

GHS07

Signal Word: WARNING

H226, H302

Flammable liquid and vapor. Harmful if swallowed.

P210, P264W, P301+312, P330

Wash with water thoroughly after handling.IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.Keep away from heat/sparks/open flames/hot surfaces. No smoking.Rinse mouth.

300 mL MB4





GHS02

GHS07

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Safety Data Sheet

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 REF: 744601.4
 NucleoMag DNA Swab (4x96)
 Page: 4/18

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 Date of Issue: 03.03.2023
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Signal Word: WARNING

H226, H302

Flammable liquid and vapor Harmful if swallowed.

P210, P264W, P301+312, P330

Wash with water thoroughly after handling.IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.Keep away from heat/sparks/open flames/hot surfaces. No smoking.Rinse mouth.

60 mL MB6

Do not need labelling as hazardous Signal Word: -

. _ _ .

1.5 mL B-Beads

Do not need labelling as hazardous Signal Word: -

Label elements of the complete product







GHS02

07 GHS

Signal Word: DANGER H226, H302, H334

Flammable liquid and vapor. Harmful if swallowed. May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

P210, P261sh, P264W, P301+312, P330, P342+311

Avoid breathing dust/vapors.Wash with water thoroughly after handling.IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.Keep away from heat/sparks/open flames/hot surfaces. No smoking.Rinse mouth.lf experiencing respiratory symptoms: Call a POISON CENTER/doctor.

2.3 Other Hazards

Possible Hazards from physicochemical Properties

Flammable properties. Vapour forms explosive mixtures with air.

Information pertaining to particular Risks to Human and possible Symptoms

Cause after oral intake, impairments of health when ingested in small quantities. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Kit contains small amounts of enzymes, which may cause sensitization by direct and repeated contact.

Information pertaining to particular Risks to the Environment

PBT: not applicable vPvB: not applicable

Possible endocrine disrupting effects

This substance/mixture contains components considered to have endocrinedisrupting properties affecting human health, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

SECTION 3: Composition/Information on Ingredients

3.1 Substances or 3.2 Mixtures

125 mL FLB

Substance name: guanidine hydrochloride

CAS No.: 50-01-1

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

Chemical Formula: CH 6 CIN 3

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

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

Concentration: 3 - <10 %

acc. GHS: The criteria for classification are not fulfilled.



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Safety Data Sheet

SDS acc. Hazard Communication Standard

 REF: 744601.4
 NucleoMag DNA Swab (4x96)
 Page: 5/18

 Printing Date: 04.04.2023
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60 mL MB6

Substance name: chemicals/mixture until 1%

CAS No.:

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

Concentration: 0,1 - <1 %

acc. GHS: The criteria for classification are not fulfilled.

1.5 mL B-Beads

Substance name: magnetic particles, suspended in water

CAS No.:

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

Synonyms (de): magnetic beads Concentration: 1 - <15 %

acc. GHS: The criteria for classification are not fulfilled.

300 mL MB3

Substance name: sodium perchlorate

CAS No.: 7601-89-0

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

Chemical Formula: NaClO ₄
Synonyms (de): Perchlorat (fest)

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

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

Concentration: 15 - <40 %

acc. GHS: H302, Acute Tox. 4 oral

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

(denatured with 1% 2-butanone)

Substance rating: H225, Flam. Liq. 2 Chemical Formula: C_2H_6O , C_2H_5OH

Synonyms (de): Äthylalkohol, vergällter Spiritus REACH Reg. No.: 01-2119457610-43-xxxx

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

Concentration: 20 - <35 % acc. GHS: H226, Flam. Liq. 3

300 mL MB4

Substance name: sodium perchlorate

CAS No.: 7601-89-0

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

Chemical Formula: NaClO 4

Synonyms (de): Perchlorat (fest)

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

EC No.: 231-511-9 Indice No.: 017-010-00-6 Concentration: 15 - <40 %

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

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

(denatured with 1% 2-butanone)

Substance rating: H225, Flam. Liq. 2 Chemical Formula: C_2H_6O ; C_2H_5OH

Synonyms (de): Äthylalkohol, vergällter Spiritus REACH Reg. No.: 01-2119457610-43-xxxx

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

Concentration: 20 - <35 % H226, Flam. Liq. 3

110 mL MBL2



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SDS acc. Hazard Communication Standard

 REF: 744601.4
 NucleoMag DNA Swab (4x96)
 Page: 6/18

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Substance name: sodium perchlorate

CAS No.: 7601-89-0

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

Chemical Formula: NaClO ₄
Synonyms (de): Perchlorat (fest)

REACH Reg. No.: Perchlorat (fest)

On-2119540521-50-xxxx

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

Concentration: 15 - <40 %

acc. GHS: H302, Acute Tox. 4 oral

Substance name: ethanol CAS No.: ethanol

(denatured with 1% 2-butanone)

Substance rating: H225, Flam. Liq. 2 Chemical Formula: C_2H_6O ; C_2H_5OH

Synonyms (de): Äthylalkohol, vergällter Spiritus

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

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

Concentration: 35 - <55 % acc. GHS: H226, Flam. Liq. 3

4.5 mL Liquid Proteinase

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

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

Chemical Formula: C $_3$ H $_8$ O $_3$ Synonyms (de): 1,2,3-Propantriol REACH Reg. No.: 01-2119471987-18-xxxx

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

Concentration: 50 - <80 %

acc. GHS: The criteria for classification are not fulfilled.

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

Synonyms (de): Endopeptidase K

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

Concentration: 1 - <3 %

acc. GHS: H334, Resp. Sens. 1

3.3 Remarks

When not listed, mixtures are added with water [CAS No. 7732-18-5] to 100%.List of Hazard and Precaution phrases: see section 16.2.

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 Vapors

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



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 REF: 744601.4
 NucleoMag DNA Swab (4x96)
 Page: 7/18

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4.1.4 After ORAL Intake

After oral intake lots of water with activated charcoal supplement should be drunk after it has been ingested.

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.

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: Fire-Fighting Measures

5.1 Extinguishable Media

5.1.1 Suitable extinguishing media

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

5.1.2 Unsuitable extinguishing media

data not available

5.2 Special Hazards arising from the Substance or Mixture

WARNING: Flammable. May form explosive vapor-air mixtures. Formation of hazardous and caustic vapor-air mixtures possible.

5.3 Advice for Firefighters

No, for listed product. The substance/mixture is flammable. Product package burns like paper or plastic. Cool any undamaged containers in water, and remove from the danger zone if possible. Heating will lead to an increase in pressure, and a danger of bursting. Spray any vapours released with water. Retent fire water. Use only acid-resistant safety equipment.

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

5.4 Additional Information

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

SECTION 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedure

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

6.2 Environmental Precautions

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 hazards. Clean any contaminated equipment and floors with plenty of water. Collect small amounts of leaked liquid and flush with water into sewer.

6.4 Reference to other Sections

see information in section 5.4,7,8 and 13

SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling

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

7.2 Conditions for Safe Storage, including any Incompatibilities

The original product package allows a safe storage. Storage class (German chemical industry): see chapter 12.1

Storage class (VCI): 3
Water hazard class (DE): 1



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Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 744601.4 NucleoMag DNA Swab (4x96) Page: 8/18 Date of Issue: 03.03.2023 Printing Date: 04.04.2023 Version: 2.2.4.11

7.2.1 Requirements for stock rooms and containers

Keep original product packages tightly closed during handling and storage.

7.3 Specific End Use(s)

Product for analytical use.

SECTION 8: Exposure Controls/Personal Protection

8.1 **Control Parameters**

125 mL FLB

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

DNEL: [inh] 3.5 mg/m³ DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): 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:

60 mL MB6

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

1.5 mL B-Beads

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

300 mL MB3

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

[derm] 2.16 mg/kg bw/day; [inh] 0.28 mg/m³

DNEL = Derived No-Effect Level (for workers)

: not listed
[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period NIOSH:

OSHA: not listed

Chemical: CAS No.: 64-17-5

[derm] 343 mg/kg; [inh] 950 mg/m³ DNEL = Derived No-Effect Level (for workers) DNEL:

0.96 mg/L

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

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/m³

300 ml MR4

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

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

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: CAS No.: 64-17-5

[derm] 343 mg/kg; [inh] 950 mg/m³

DNEL = Derived No-Effect 0.96 mg/L **PNEC**

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

[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/m³

110 mL MBL2

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

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

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



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SDS acc. Hazard Communication Standard

REF: 744601.4 NucleoMag DNA Swab (4x96) Page: 9/18 Date of Issue: 03.03.2023 Printing Date: 04.04.2023 Version: 2.2.4.11

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

DNEL: [derm] 343 mg/kg; [inh] 950 mg/m³ DNEL = Derived No-Effect Level (for workers)

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

I: [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/m³

4.5 mL Liquid Proteinase

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

DNFI: [inh] 56 mg/m³ DNEL = Derived No-Effect Level (for workers) PNEC (fresh water): 0.885 mg/L PNEC = Predicted No Effected Concentration

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

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 vapor/dust respirator, class A/AX. No additional recommendations.

8.2.2 Skin protection / Hand protection

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

Eye / Face Protection 8.2.3

Yes, Splash Goggles

Skin Protection 8.2.4

Recommended to avoid contamination with these hazards.

8.2.5 Hygiene Measures

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

8.2.6 Thermal hazards

data not available

8.3 Limitation and monitoring of environmental exposure

Do not release product into environment.

SECTION 9: Physical and Chemical Properties

Information on Basic Physical and Chemical Properties 9.1

125 mL FLB

a) State of aggregation: liquid b) Color: colorless c) Odor: odorless d) Melting Point: data not available e) Boiling Point: data not available f) Flammability: data not available g) Explosive Limits (lower / upper): data not available h) Flash Point: data not available i) Autoignition Temperature: data not available j) Decomposition Temperature: data not available k) pH Value: 7.5 - 8.5I) Kinematic Viscosity: data not available m) Soluble in Water: data not available n) Partition Coefficient (o/w): data not available o) Vapor Pressure (68°F): data not available p) Specific Gravity: 1.03 g/cm³ q) Relative Vapor Density (air=1): data not available



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Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 744601.4 NucleoMag DNA Swab (4x96) Page: 10/18 Printing Date: 04.04.2023 Date of Issue: 03.03.2023 Version: 2.2.4.11

> r) Particle Size: data not available

60 mL MB6

a) State of aggregation: liquid b) Color: colorless c) Odor: odorless d) Melting Point: 0°C e) Boiling Point: data not available f) Flammability: data not available g) Explosive Limits (lower / upper): data not available h) Flash Point: data not available i) Autoignition Temperature: data not available j) Decomposition Temperature: data not available k) pH Value: 8-9 I) Kinematic Viscosity: data not available m) Soluble in Water: data not available n) Partition Coefficient _(o/w): data not available o) Vapor Pressure (68°F): data not available p) Specific Gravity: q) Relative Vapor Density (air=1): 1.0 g/cm³ data not available r) Particle Size: data not available

1.5 mL B-Beads

a) State of aggregation: liquid colorless b) Color: c) Odor: odorless d) Melting Point: data not available e) Boiling Point: data not available f) Flammability: data not available g) Explosive Limits (lower / upper): h) Flash Point: data not available data not available i) Autoignition Temperature: data not available j) Decomposition Temperature: data not available k) pH Value: data not available I) Kinematic Viscosity: data not available m) Soluble in Water: data not available n) Partition Coefficient (o/w): data not available o) Vapor Pressure (68°F): data not available p) Specific Gravity: q) Relative Vapor Density _(air=1): data not available data not available r) Particle Size: data not available

300 mL MB3

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liquid a) State of aggregation: b) Color: colorless c) Odor: alcoholic d) Melting Point: data not available 83,6 °C e) Boiling Point: f) Flammability: data not available g) Explosive Limits (lower / upper): data not available h) Flash Point: 26 °C i) Autoignition Temperature: data not available j) Decomposition Temperature: data not available 4.5-5.5 k) pH Value: I) Kinematic Viscosity: data not available m) Soluble in Water: data not available n) Partition Coefficient (o/w): data not available o) Vapor Pressure (68°F): p) Specific Gravity: data not available 1.06 g/cm³ q) Relative Vapor Density (air=1): data not available r) Particle Size: data not available



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Safety Data Sheet

SDS acc. Hazard Communication Standard

 REF: 744601.4
 NucleoMag DNA Swab (4x96)
 Page: 11/18

 Printing Date: 04.04.2023
 Date of Issue: 03.03.2023
 Version: 2.2.4.11

1.06 g/cm³

data not available

data not available

300 mL MB4

a) State of aggregation: liauid b) Color: colorless c) Odor: alcoholic d) Melting Point: data not available 83,6 °C e) Boiling Point: f) Flammability: data not available g) Explosive Limits (lower / upper): data not available h) Flash Point: 26 °C i) Autoignition Temperature: data not available j) Decomposition Temperature: data not available 4.5-5.5 k) pH Value: I) Kinematic Viscosity: data not available m) Soluble in Water: data not available n) Partition Coefficient (o/w): data not available o) Vapor Pressure (68°F): data not available

110 mL MBL2

r) Particle Size:

p) Specific Gravity:

q) Relative Vapor Density (air=1):

a) State of aggregation: liquid b) Color: colorless c) Odor: alcoholic d) Melting Point: data not available e) Boiling Point: 83.6 °C f) Flammability: data not available g) Explosive Limits (lower / upper): h) Flash Point: data not available 24 °C i) Autoignition Temperature: data not available j) Decomposition Temperature: data not available k) pH Value: 5-6 I) Kinematic Viscosity: data not available m) Soluble in Water: data not available n) Partition Coefficient _(o/w): data not available o) Vapor Pressure (68°F): data not available p) Specific Gravity: q) Relative Vapor Density (air=1): data not available data not available r) Particle Size: data not available

4.5 mL Liquid Proteinase

a) State of aggregation: liquid colorless b) Color: c) Odor: odorless d) Melting Point: data not available e) Boiling Point: data not available f) Flammability: data not available g) Explosive Limits (lower / upper): data not available h) Flash Point: data not available i) Autoignition Temperature: data not available j) Decomposition Temperature: data not available k) pH Value: 7-8 I) Kinematic Viscosity: data not available m) Soluble in Water: 0-100 % n) Partition Coefficient (o/w): data not available o) Vapor Pressure (68°F): data not available p) Specific Gravity 1.1 g/cm³ q) Relative Vapor Density (air=1): data not available r) Particle Size: data not available

9.2 Further Information

No data is available for the other parameters for the mixtures, since no registration and no chemical safety report is required. **Properties relevant to substance groups**



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Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 744601.4 NucleoMag DNA Swab (4x96) Page: 12/18 Date of Issue: 03.03.2023 Printing Date: 04.04.2023 Version: 2.2.4.11

SECTION 10: Stability and Reactivity

10.1 Reactivity

No further data available.

10.2 **Chemical Stability**

no known instability.

10.3 **Possibility of Hazardous Reactions**

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

10.4 Conditions to avoid

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

10.5 **Incompatible Materials**

Avoid storage with oxidizing substances. ---

10.6 **Hazardous Decomposition Products**

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

SECTION 11: Toxicological Information

11.1 Information on Toxicological Effects

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

125 mL FLB

Chemical: guanidine hydrochloride

CAS No.: 50-01-1 California Prop. 65 List: not listed

TSCA Inventory: listed Canada CEPA 1999:

DSL yes

475-907 mg/kg LD50 orl rat:

3181-7655 µg/m³/4H LC50 ihl rat:

60 mL MB6

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

CAS No.: -

TSCA Inventory: all listed. <1%

1.5 mL B-Beads

magnetic particles, suspended in water Chemical:

listed (CAS 1309-38-2) TSCA Inventory:

300 mL MB3

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

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

Canada CEPA 1999: DSL Yes 2100 mg/kg LD50 orl rat:

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

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

TSCA Inventory: listed California Prop. 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

Canada CEPA 1999: DSL yes LD50 orl rat: 6200 mg/kg LC_Low ihl gpg: 21,900 mg/L 1400 mg/kg LC Low orl hmn: $LC\overline{5}0$ ihl mus : 123,4 mg/L/4H LC50 ihl rat: 115,9-133,8 mg/L/4H

LD50 orl mus: 3450 mg/kg

300 mL MB4



Software: M2 V 6.1.1.5

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Safety Data Sheet

SDS acc. Hazard Communication Standard

 REF: 744601.4
 NucleoMag DNA Swab (4x96)
 Page: 13/18

 Printing Date: 04.04.2023
 Date of Issue: 03.03.2023
 Version: 2.2.4.11

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

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

Canada CEPA 1999: DSL Yes LD50 _{orl rat}: 2100 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 Prop. 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

 Canada CEPA 1999:
 DSL yes

 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 _{orl mus}: 3450 mg/kg

110 mL MBL2

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

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

Canada CEPA 1999: DSL Yes LD50 _{orl rat}: 2100 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 Prop. 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

 Canada CĒPA 1999:
 DSL yes

 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 _{orl mus}: 3450 mg/kg

4.5 mL Liquid Proteinase

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

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

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

LD50 orl rat: 12600 mg/kg

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

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

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

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

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.

11.2 Other Hazards

Possible endocrine disrupting effects

This substance/mixture contains components considered to have endocrinedisrupting properties affecting human health, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Other Information

no additional data available



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CAS No.: 64-17-5

CAS No.: 7601-89-0

Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 744601.4 NucleoMag DNA Swab (4x96) Page: 14/18 Date of Issue: 03.03.2023 Printing Date: 04.04.2023 Version: 2.2.4.11

SECTION 12: Ecological Information

12.1 **Toxicity**

Following information is valid for pure chemicals.

125 mL FLB

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

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

LC50 leuciscus idus/96h: 1759 mg/L

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

EC50 daphnia/48h: 70.2 mg/L

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

60 mL MB6

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

1.5 mL B-Beads

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

300 mL MB3

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

Chemical: ethanol

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

>100 g/L LC50 daphnia magna/48h: 13.4-15.1 g/L LC50 pimephales promelas/96h: LC50 leuciscus idus/96h: [48h] 8.14 g/L LC50 fish/96h: 13 g/L EC50 daphnia/48h: 9.3-14.2 g/L IC50 scenedesmus quadricauda/72h: [7d] 5000 mg/L [EC5] 6500 mg/L

EC10 pseudomonas putita/16h Partition Coefficient (o/w): -0,31

300 mL MB4 Chemical: sodium perchlorate

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

0.96 mg/L

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

LC50 daphnia magna/48h: >100 g/L LC50 pimephales promelas/96h: 13.4-15.1 g/L [48h] 8.14 g/L LC50 leuciscus idus/96h LC50 fish/96h: 13 g/L 9.3-14.2 g/L EC50 daphnia/48h: IC50 scenedesmus quadricauda/72h: [7d] 5000 mg/L [EC5] 6500 mg/L

EC10 pseudomonas putita/16h: Partition Coefficient (o/w): -0,31

110 mL MBL2

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

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

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

LC50 daphnia magna/48h: >100 g/L 13.4-15.1 g/L LC50 pimephales promelas/96h : LC50 leuciscus idus/96h [48h] 8.14 g/L LC50 fish/96h: 13 g/L EC50 daphnia/48h: 9.3-14.2 g/L [7d] 5000 mg/L IC50 scenedesmus quadricauda/72h: [EC5] 6500 mg/L EC10 pseudomonas putita/16h:

Partition Coefficient (o/w): -0,31



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Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 744601.4 NucleoMag DNA Swab (4x96) Page: 15/18 Printing Date: 04.04.2023 Date of Issue: 03.03.2023 Version: 2.2.4.11

4.5 mL Liquid Proteinase

CAS No : 56-81-5 Chemical: glycerole

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

LC50 fish/96h: >5000 _{24h} mg/L EC50 daphnia/48h: >10 _{24h} g/L IC5 _{7d} >10 g/L IC50 scenedesmus quadricauda/72h EC5: >10 g/L EC10 pseudomonas putita/16h: Partition Coefficient (o/w): -1,76

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

12.2 Persistence and Degradability

not necessary

12.3 **Bioaccumulative Potential**

not necessary

12.4 Mobility in Soil

not necessary

12.5 Results of PBT and vPvB Assessment

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

Endocrine disrupting properties 12.6

This substance/mixture contains components considered to have endocrinedisrupting properties affecting human health, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

12.7 Other Adverse Effects

no additional data available

SECTION 13: Disposal Considerations

Please observe local regulations for collection and disposal of hazardous waste and contact waste disposal company, where you will obtain information on laboratory waste disposal (RCRA Code D002/D003, EU waste code number 16 05 06).

13.1 Waste Treatment Methods

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

SECTION 14: Transport Information

14.1. UN/NA: 14.2. Proper Shipping Name: Flammable liquid, n.o.s. (ethanol mixture) 1993

14.3. Hazard Class: 3 14.4. Packing Group:

Transportation by Road Classification code: F1

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

Air Transportation

Limited Quantity: LQ4 **Excepted Quantity:** F 2 353

PAX: max. weight PAX: CAO: 364 max. weight CAO: 60 I

Maritime Transport

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

14.5 **Environmental Hazards**

none, contains only small quantities of hazardous substances

14.6 Special Precautions for User

not necessary



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Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 744601.4 NucleoMag DNA Swab (4x96) Page: 16/18 Date of Issue: 03.03.2023 Printing Date: 04.04.2023 Version: 2.2.4.11

14.7 Carriage of bulk cargo by sea in accordance with IMO instruments

Not applicable.

SECTION 15: Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

U.S. Federal Regulations

OSHA "A Guide to The Globally Harmonized System of Classification and Labelling of Chemicals (GHS)"

https://www.osha.gov/dsg/hazcom/ghs.html

29 CFR 1910.1200 Hazard communication.

NIOSH Pocket Guide to Chemical Hazards

NIOSH Workplace Safety & Health Topics

TSCA Inventory

U.S. State Regulations

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

Canada

Canada CEPA 1999 - Domestic Substances List (DSL), List of Toxic Substances (Schedule 1)

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

15.2 Chemical Safety Assessment

not necessary for these small amounts

SECTION 16: Other Information

16.1 Changes compared to the last version

Between versions 2.2.4.11 and 2.2.2.2 following changes were applied: - 2 composition data corrected - 9 substance data corrected

16.2 **List of Hazard and Precaution Phrases**

16.2.1 List of relevant H Phrases

H226 Flammable liquid and vapor. H302 Harmful if swallowed.

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

16.2.2 List of relevant P Phrases

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

P261sh Avoid breathing dust/vapors.

Wash with water thoroughly after handling. P264W

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

P330 Rinse mouth.

P342+311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

16.3 **Recommended Restriction on Use**

Only for Professional User.

Look about employee restrictions for young people!

Look about employee restrictions for pregnant women and nursing women!

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

16.4 Sources of Key Data

KÜHN, BIRETT, Leaflets on hazardous materials, 2021

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

SUVA .CH, limit values in the air at work 2009, revised on 01/2009

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

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

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

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

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

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

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

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

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

Regulation 878/2020/EU, adaptation of Annex II of the REACH regulation 1907/2006/EG

Regulation 1182/2020/EÚ, 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)



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Safety Data Sheet

SDS acc. Hazard Communication Standard

 REF: 744601.4
 NucleoMag DNA Swab (4x96)
 Page: 17/18

 Printing Date: 04.04.2023
 Date of Issue: 03.03.2023
 Version: 2.2.4.11

Regulation 849/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (17th 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

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

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16.6 Legend / Abbreviations

acc: according

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

Act: acute

BAT: biological workplace tolerance value

CAO: Cargo Aircraft Only

Carc: carcinogen

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging regulation

CMR: carcinogen, mutagen, reproduction toxic

Corr: corrosive

COD: chemical oxigen demand

CSCL: Chemical Substance Control Law (Jp)

Dam: damage

DNEL: Derived No-Effect Level (for workers)

dog: dog

EC10: 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

EU: European Union fish: fish (not specified)

GHS: Global Harmonized System of Classification and Labeling of Chemicals

gpg: guinea pig ICAO: Internation

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 mus: mouse 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: pH value

pimephales promelas: fish, fathead minnow PNEC: Predicted No Effected Concentration



Software: M2 V 6.1.1.5

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Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 744601.4 NucleoMag DNA Swab (4x96) Page: 18/18 Printing Date: 04.04.2023 Date of Issue: 03.03.2023 Version: 2.2.4.11

PROC 15: Process category 'for laboratory use'

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

PVC: polyvinyl chloride quail: bird, quail

rat: rat rbt: rabbit

RD: rapidly degradable

RE: repeated

REACh: Registration, Evaluation, Authorisation and Restriction of Chemicals

REF: item number, reference number

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

Resp: respiratory scu: sub cutan

RIP: **REACH Implementations Projects**

SDS: safety data sheet sensitisation Sens:

STEL: short term exposure limit STOT: Specific Target Organ Toxicity 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)

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.