

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

REF: 740490.50 NucleoSpin Plasmid Transf.-grade (50) Page: 1/14

Printing date: 14.02.2020 Date of issue: 23.01.2020

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

1.1 **Product identifier**

REF 740490.50

Product name NucleoSpin Plasmid Transf.-grade (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 15 mL A1

1 x 15 mL A2 (with LyseControl)

1 x 20 mL A3 1 x 13 mL AE 2 x 6 mL AQ 1 x 50 mL ERB

1 x 0.6-20 mg RNase A (Iyo)

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

Relevant identified uses

Product for analytical use.

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

Uses advised against

not described

1.3 Details of the supplier of the safety data sheet

Manufactured by:

MACHEREY-NAGEL GmbH & Co. KG Neumann-Neander-Str. 6-8, 52355 Dueren, GERMANY

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scientifix

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1.4 **Emergency telephone number**

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

You find our current versions of SDS (22 languages) in Internet:

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

SECTION 2: Hazard identification

2.0 Classification of the complete product







GHS02

GHS07 GHS08

DANGER Signal word

Hazard identification	Hazard classes/categories
H226	Flam. Liq. 3
H302	Acute Tox. 4 oral
H315	Skin Irrit. 2
H319	Eye Irrit. 2
H334	Resp. Sens. 1
H336	STOT SE 3

2.1 Classification of the substance or mixture

15 mL A1

Do not need labelling as hazardous

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Signal word

No hazard class

15 mL A2 (with LyseControl)

Signal word WARNING

Hazard identification Hazard classes/categories H315 Skin Irrit. 2 H319 Eye Irrit. 2

20 mL A3

Signal word WARNING

Hazard identification Hazard classes/categories H302 Acute Tox. 4 oral

H319 Eye Irrit. 2

13 mL AE

Do not need labelling as hazardous

Signal word

No hazard class

6 mL AQ

Do not need labelling as hazardous

Signal word

No hazard class

50 mL ERB



Signal word WARNING

Hazard identification Hazard classes/categories

H226 Flam. Liq. 3 Eye Irrit. 2 H319 H336 STOT SE 3

0.6-20 mg RNase A (Iyo)

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Signal word **DANGER**

Hazard identification Hazard classes/categories

H334 Resp. Sens. 1

2.2 Label elements

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

Harmful chemicals/mixtures with signal word: WARNING and highly flammable chemicals/mixtures must not be labelled with H and P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2). This labelling exemption is NOT valid for sensibilizing substances.

Do not need labelling as hazardous Signal word: -

15 mL A2 (with LyseControl)



Signal word: WARNING

20 mL A3



Signal word: WARNING

13 mL AE

Do not need labelling as hazardous Signal word: -

6 mL AQ

Do not need labelling as hazardous Signal word: -

50 mL ERB





Signal word: WARNING

0.6-20 mg RNase A (Iyo)

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GHS08

Signal word: DANGER

H334

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

P261sh, P342+311

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

2.3 Other hazards

Possible hazards from physicochemical properties

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

Information pertaining to particular risks to human and possible symptoms

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

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

Information pertaining to particular risks to the environment

PBT: not applicable vPvB: not applicable

Other hazards

SECTION 3: Composition/information on ingredients

3.1 Substances or 3.2 Mixtures

15 mL A1

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

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

TSCA Inventory: all listed, < KE No.: listed Concentration: 0,1 - <1 %

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

15 mL A2 (with LyseControl)

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

Classification: H314, Skin Corr. 1B
Formula: NaOH•H2 O
Pseudonym: diluted soda lye

TSCA Inventory: listed

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

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

RTECS: WB4900000 KE No.: KE-31487 Concentration: 0,5 - <1 %

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

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

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

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

Formula: C₁₂ H₂₅ NaO₄ S

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

TSCA Inventory: listed

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

EC No.: 205-788-1

RTECS: WT1050000 MFCD: 00036175

KE No.: KE-21884 Concentration: 0,1 - <1 %

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

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

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

Concentration: < 0,01 %

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

20 mL A3

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

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

Formula: CH₆ CIN₃

Pseudonym: guanidinium chloride

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

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

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

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

13 mL AE

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

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

TSCA Inventory: all listed. <1% KE No.: listed Concentration: 0.1 - <1 %

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

6 mL AQ

Chemical: inorganic salts, declaration not necessary CAS No .: -

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

Pseudonym: not hazardous TSCA Inventory: all listed KE No.: listed Concentration: 1 - < 3 %

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

50 mL ERB

Chemical. CAS No.: 102-71-6 triethanolamine

H315, Skin Irrit. 2, H319, Eye Irrit. 2, H335, STOT SE 3 Classification:

Formula: C₆ H₁₅ NO₃

Pseudonym: 2,2',2"-nitrilotriethanol; tris(2-hydroxyethyl)amine

TSCA Inventory: listed

REACH Reg. No.: 01-2119486482-31-xxxx

The application of this chemical is exempt from the regulation 2017/2268/EU (see IC350 remark 4). Dual-use:

EC No.: 203-049-8 RTECS: KL9275000 KE No .: KE-25940 Concentration: 1 - < 10 %

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

Chemical: CAS No.: 67-63-0

Classification: H225, Flam. Liq. 2, H319, Eye Irrit. 2, H336, STOT SE 3 Formula: C₃ H₈ O

Pseudonym: isopropanol, IPA, propan-2-ol

TSCA Inventory: listed

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

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

KE No.: KE-29363 Concentration: 35 - < 50 %

H226, Flam. Liq. 3, H319, Eye Irrit. 2, H336, STOT SE 3 acc. CLP (GHS):

0.6-20 mg RNase A (Iyo)

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

Classification: H334, Resp. Sens. 1

Formula: Enzyme Comm. No. 3.1.27.5, origin: bovine pancreas (controlled population)

Pseudonym: Nuclease, ribo-

TSCA Inventory: listed EC No.: 232-646-6 RTFCS RF0760000 KE No .: KE-30341 Concentration: 90 - <100 % acc. CLP (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 H and P phrases: see section 16.1

SECTION 4: First aid measures

4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitation if necessary. If necessary contact medical advice. Take to a doctor, in a raised position if there are breathing difficulties.

4.1.1

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

4.1.2 After EYE Contact

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

4.1.3 After INHALATION of vapours

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

4.1.4 After ORAL Intake

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

4.2 Most important symptoms and effects, both acute and delayed

Chronic Effects: May cause sensitization by skin contact, also in repeated contact of small amounts. May cause allergy or asthma symptoms or breathing difficulties if inhaled. ---

4.3 Indication of any immediate medical attention and special treatment needed

Inform patient respectively further measures and the possibility of long-term damages. ---

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

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

5.3 Advice for firefighters

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

5.4 Additional information

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Regular staff training is necessary, indicating hazards and precautions on the basis of operating instructions. Restrictions on activity must be observed.

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6.2 **Environmental precautions**

not necessary

6.3 Methods and material for containment and cleaning up

> Bind any escaping liquid with inert absorbent. And dispose in accordance to local regulations for the disposal of hazardous chemicals. Clean any contaminated equipment and floors with plenty of water.

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

6.4 Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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

7.2 Conditions for safe storage, including any incompatibilities

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

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

7.2.1 Requirements for stock rooms and containers

Keep original product packages tightly closed during handling and storage.

7.3 Specific end use(s)

Product for analytical use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

15 mL A1

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

15 mL A2 (with LyseControl)

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

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

NIOSH: not listed

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

OSHA: not listed

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

20 mL A3

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

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

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

not listed NIOSH

age to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: not listed

13 mL AE

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

6 mL AQ

Chemical: inorganic salts, declaration not necessary CAS No .: -

50 mL ERB

Chemical: triethanolamine CAS No.: 102-71-6

DNEL: [derm] 6.3; [inh] 5 mg/m³

DNEL = Derived No-Effect Level (for workers)

PNEC_(fresh water): 0.32 mg/L PNEC = Predicted No Effected Concentration 0.32 mg/L TRGS 900 (DE): - DFG: 5 E mg/m³

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E/e respirable

Short-term exposure factor: I, (2)

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

SUVA(CH) MAK value: [MAK] 5 e/[STEL] 10 e mg/m3

not listed NIOSH:

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

OSHA: not listed

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

DNEL: [inh] 500 mg/m3 DNEL = Derived No-Effect PNEC_(fresh water): 140.9 mg/L PNEC = Predicted No Effected Concentration

TRGS 900 (DE): 200 ppm / 500 mg/m³

E/e respirable

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

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

SUVA(CH) MAK value: 200 ppm / 500 mg/m3 [Aceton B/b, U/b] 25 mg/L B blood, U urine, a no limitation, b end of exposition or shift TRGS 903 (DE):

[TWA] 400 ppm / 980 mg/m³ NIOSH:

NIOSH STEL: 500 ppm / 1225 mg/m³

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

OSHA: [TWA] 400 ppm / 980 mg/m³

0.6-20 mg RNase A (Iyo)

Chemical: CAS No.: 9001-99-4

8.2 **Exposure controls**

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

8.2.1 Respiratory protection

Use for open access of these substances for example a protection filter, class A/AX. No additional recommendations.

8.2.2

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

8.2.3

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

8.2.4 Skin protection

Recommended to avoid contamination with these hazards.

8.2.5 Personal hygiene

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

15 mL A1

Appearance: liquid Colour: colourless Odor: odorless

7 5-8 5 pH: Specific gravity: 1.00 g/cm³

15 mL A2 (with LyseControl)

Appearance: liquid Colour: blue Odor: odorless

Specific gravity: 1.008 g/cm³

20 mL A3

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Colour: colourless

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Odor: acetic

Odor: odorless

Odor: odorless

Odor: alcoholic

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Appearance: liquid

4-4.5

Specific gravity: 1.14 g/cm³

13 mL AE

Appearance: liquid Colour: colourless

pH: 1.0 g/cm³ Specific gravity:

6 mL AQ

Appearance: liquid Colour: colourless

7.5-8 pH:

Specific gravity: 1.01 g/cm³

50 mL ERB

Appearance: liquid Colour: colourless

5.5-6.5 24 °C Flash point: 0-100 % Solubility in water:

0.6-20 mg RNase A (Iyo)

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

Solubility in water: 0-100 %

9.2 Other information

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

SECTION 10: Stability and reactivity

10.1 Reactivity

no further data available.

10.2 Chemical stability

No known instability.

10.3 Possibility of hazardous reactions

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

10.4 Conditions to avoid

Not necessary. ---

10.5 Incompatible materials

Avoid contact with strong acids or alkalines.

10.6 Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

15 mL A1

Chemical: chemicals/mixture < 1%

TSCA Inventory: all listed, <1%

Korea Exist.Chem.Inventory: listed

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CAS No .: -

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15 mL A2 (with LyseControl)

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

TSCA Inventory: listed California Proposition 65 List: not listed

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

Target Organs: Eyes, skin, respiratory system

Symptoms:

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

Korea Exist.Chem.Inventory: KE-31487 LD50_{orl rat}: [< 1%] > 50 g/kg LD50_{orl mus}: [< 1%] > 4 g/kg

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

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

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

Japan ISHL: not listed South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-21884 LD50_{orl rat}: 1288 mg/kg LC50_{inh rat}: 3900_{1h} mg/m³ LD50_{drm rbt}: 10 g/kg

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

TSCA Inventory: all listed, <1%

20 mL A3

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

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

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

Japan ISHL: not listed South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-18111 475-907 mg/kg LD50_{orl rat}: [4h] 3181-7655 µg/m³ LC50ihl rat: LD50_{drm rbt}: 2000 mg/kg

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

13 mL AE

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

TSCA Inventory: all listed, <1%

Korea Exist.Chem.Inventory: listed

6 mL AQ

Chemical: inorganic salts, declaration not necessary CAS No.: -

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

50 mL ERB

Chemical: triethanolamine CAS No.: 102-71-6

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

Japan CSCL/PRTR: PAC Yes, 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-25940 > 5000 mg/kg LD50_{orl rat}: LD50_{drm rbt}: > 2000 mg/kg

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

TSCA Inventory: California Proposition 65 List: not listed listed

ACGIH: 1230 ppm

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

Target Organs: Eyes, skin, respiratory system

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

Australia NICNAS: Canada CEPA 1999: DSL yes

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

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

South Korea TCCA:

Korea Exist.Chem.Inventory: KE-29363 LD50_{orl rat}: 5045 mg/kg 3570 mg/kg LC_Loworl hmn: LC50_{ihl rat}: 16_{4h} g/m³ LD50_{drm rbt}: 12.8 g/kg

TRGS 905 (DE): R_F C

0.6-20 mg RNase A (Iyo)

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

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

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

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

SECTION 12: Ecological information

12.1 Toxicity

Following information is valid for pure substances.

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

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

15 mL A2 (with LyseControl)

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

LC50leuciscus idus/96h: 35-189 mg/L LC50fish/96h: 45.4 mg/L EC50_{daphnia/48h}: >100 mg/L

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

Storage class (VCI): 12-13

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

LC50daphnia magna/48h: 6.3 mg/L LC50fish/96h: 1.31-22.5 mg/L

Water hazard class (DE): Dispersion coefficient_(octanol-water): 16 Storage class (VCI): 12-13

indicator dye(s) CAS No.: -

Storage class (VCI): 12-13

20 mL A3

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

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

LC50leuciscus idus/96h: 1759 mg/L

LC50_{fish/96h}: [4d] 690-1850; [48h] 1758-2420 mg/L

EC50_{daphnia/48h}: 70.2 mg/L [72h] 11.8-33.5 mg/L EC10_{pseudomonas} putita/16h Water hazard class (DE): WGK No.: 0788

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> Storage class (VCI): 12

13 mL AE

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

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

6 mL AQ

CAS No .: -Chemical: inorganic salts, declaration not necessary

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

50 mL ERB

CAS No.: 102-71-6 Chemical: triethanolamine

PNEC (fresh water):
PNEC = Predicted No Effected Concentration 0.32 mg/L

LC50_{fish/96h}: >1000 mg/L

EC50_{daphnia/48h}: >1000_{24h} mg/L Water hazard class (DE): WGK No.: 0201

Dispersion coefficient(octanol-water): -2.3 Storage class (VCI): 12

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

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

LC50_{fish/96h}: 1400 mg/L $EC50_{daphnia/48h}$: 13.3 g/L IC50_{scenedesmus} quadricauda/72h >1000 mg/L

EC5: 1050 mg/L EC10_{pseudomonas putita/16h}: Water hazard class (DE): WGK No.: 0135

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

0.6-20 mg RNase A (Iyo)

Chemical: CAS No.: 9001-99-4

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

12.2 Persistence and degradability

not necessary

12.3 Bioaccumulative potential

not necessary

12.4 Mobility in soil

not necessary

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

no additional data available

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods

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

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SECTION 14: Transport information

14.1 - 14.4 Not necessary

14.5 Environmental hazards

none, contains only small quantities of hazardous substances

14.6 Special precautions for user

not necessary

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

not applicable

SECTION 15: Regulatory information

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

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

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

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

Look for your country-specific regulations.

15.2 Chemical safety assessment

not necessary for these small amounts ---

SECTION 16: Other information

16.1 List of H and P phrases

16.1.1 List of relevant H phrases

H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

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

H336 May cause drowsiness or dizziness.

16.1.2 List of relevant P phrases

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

P260D Do not breathe vapours.
P261sh Avoid breathing dust/vapours.

P264W Wash with water thoroughly after handling. P280sh Wear protective gloves/eye protection.

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

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

P330 Rinse mouth.

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

16.2 Training advice

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

16.3 Recommended restriction on use

Only for professional user.

Look about employee restrictions for young people (f. ex. 94/33/EC or DE § 22 JArbSchG)!

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

16.4 Further information

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

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16.5 Sources of key data

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

Regulation 487/2013/EU, 4th adaptation of CLP regulation to technical and scientific progress Regulation 669/2018/EU, 4th adaptation of CLP regulation to technical and scientific progress

Regulation 1480/2018/EU, 4th adaptation of CLP regulation to technical and scientific progress

TRGS 900, German engineering rules governing limits in air at work, updated 03/2019

SUVA .CH, Limits in air at work 2009, revised on 01.2009
TRGS 907, German engineering rules governing listing of substances and causes of sensitizations, updated November 2011
KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

Revisions/Updates

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

2017-11 Adaption of ECHA Registration dossier

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