MACHEREY-NAGEI



Safety Data Sheet

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

| REF: 740983.250 | NucleoSpin Virus (250) | Page: 1/12 |
|---------------------------|---------------------------|------------|
| Printing date: 14.02.2020 | Date of issue: 20.05.2019 | |

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

| SEC | I ION 1: Identification o | t the substance/mixture | and of the company | under |
|-----|---|--|--|------------------------|
| 1.1 | Product identifier | | | |
| | REF | 740983.250 | | |
| | Product name | NucleoSpin Virus (250) | | |
| | REACH Registration numbe A registration number for | r(s): see SECTION 3.1/3.2 or the substance(s) does not exist because the a | nnual tonnage does not require registratic | on or |
| | the substance or its use is | s excluded from registration. | | |
| | | 3 x 0.09-1.0 mg Carrier RNA | A | |
| | | 2 x 1.5 mL Liquid Proteinase | | |
| | | 1 x 125 mL VL | | |
| | | 1 x 125 mL VW1 | | |
| | | 1 x 50 mL VW2 | | |
| | | 1 x 13 mL RNase-free H_2 O | | |
| 1.2 | Relevant identified uses | of the substance or mixture | and uses advised again | st |
| | Product for analytical use. | | | |
| | | Classification according REACh, RIP | 3.2 Codes: SU 0-2, PC 21, PROC | ; 15, AC 0 |
| | The exposure scena | rio is integrated into sections 1-16. | | |
| | Uses advised against not described | | | |
| | | | | |
| 1.3 | Details of the supplier of | the safety data sheet | scientifix | |
| 1.5 | | the salety tata sheet | | |
| | Manufactured by: MACHEREY-NAGEL GmbH | I & Co. KG | PO Box 662 South Yarra VIC 3141 Australia | Free call: 18 T: +6 |
| | Neumann-Neander-Str. 6-8, Tel.: +49 2421 969 0 | 52355 Dueren, GERMANY | www.scientifix.com.au | F: +6 E: inf |
| 1.4 | Emergency telephone nu | umber | | |
| | Outside Germany (DE): Call DE: Gemeinsames Giftinfor | your regional Poisons Information Semationszentrum (GGIZ) | ervice or call local Life Saving Ser 99089 Erfurt tel. +49 361 730 73 | |

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

SECTION 2: Hazard identification

2.0 Classification of the complete product



WARNING Signal word Hazard identification Hazard classes/categories H226 Flam. Liq. 3 Acute Tox. 4 oral H302 H315 Skin Irrit. 2 H319 Eye Irrit. 2 H336, H335 STOT SE 3

2.1 Classification of the substance or mixture

0.09-1.0 mg Carrier RNA

Do not need labelling as hazardous



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|-----|---|---|----------------------|
| | Signal word | - | |
| | No hazard class | | |
| | 1.5 mL Liquid Proteinase K | | |
| | Signal word | Do not need labelling as hazardous - | |
| | No hazard class | | |
| | 125 mL VL | | |
| | | | |
| | | GHS07 | |
| | Signal word | WARNING | |
| | Hazard identification | Hazard classes/categories | |
| | H302 H315 H319 | Acute Tox. 4 oral Skin Irrit. 2 Eye Irrit. 2 | |
| | 125 mL VW1 | | |
| | | GHS02 GHS07 | |
| | Signal word | WARNING | |
| | Hazard identification | Hazard classes/categories | |
| | H226 H302 H319 H336, H335 | Flam. Liq. 3 Acute Tox. 4 oral Eye Irrit. 2 STOT SE 3 | |
| | 50 mL VW2 | | |
| | Signal word | Do not need labelling as hazardous - | |
| | No hazard class | | |
| | 13 mL RNase-free H ₂ O | | |
| | Signal word | Do not need labelling as hazardous - | |
| | No hazard class | | |
| 2.2 | Label elements According CLP directive inner pack - 1.5.1.2). | ages must be only labelled with GHS symbol(s) and product identificator(s) (I | EU 1272/2008 Annex I |
| | Harmful chemicals/mixtures with sig | nal word: WARNING and highly flammable chemicals/mixtures must not be la | abelled with H and P |

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).

The irritant hazard should be eliminated, because of buffer chemicals inside.



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0.09-1.0 mg Carrier RNA

Do not need labelling as hazardous Signal word: -

1.5 mL Liquid Proteinase K

Do not need labelling as hazardous Signal word: -

125 mL VL



Signal word: WARNING

125 mL VW1



Signal word: WARNING

50 mL VW2

Do not need labelling as hazardous Signal word: -

13 mL RNase-free H₂ O

Do not need labelling as hazardous Signal word: -

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: In liquid form no hazard H334. ---

Information pertaining to particular risks to the environment

Other hazards

SECTION 3: Composition/information on ingredients

3.1 Substances or 3.2 Mixtures

0.09-1.0 mg Carrier RNA CAS No.: 26763-19-6 Chemical: carrier RNA Classification: No criteria for classification or naming of chemical not required. TSCA Inventory: listed (CAS 9001-99-4) RTECS: MFCD: 00131937 KE No.: KE-30341 90 - <100 % Concentration: acc. CLP (GHS): The criteria for classification are not fulfilled

ACHEREY-NAGE (MN> ISO 9001 CERTIFIEI

MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany DE/international: CH: FR: US: Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: +1 484 821 0984 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 Fax: +1 484 821 1272 Version: M V 4.12.0 E-mail: info@mn-net.com E-mail: sales-ch@mn-net.com E-mail: sales-fr@mn-net.com E-mail: sales-us@mn-net.com



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

| REF: 740983.250 Printing date: 14.02.202 | 20 | NucleoSpin Virus (Date of issue: 20.0 | / | | Page: 4/1 |
|---|---|--|--------------------------------|--------------------------|-----------|
| | iquid Proteinase K | | | | |
| | Chemical: protein Classification: Formula: | hase <i>K, liquid</i> (origin: tritirachium al H315, Skin Irrit. 2, H319, Eye Irri Enzyme Comm. No. 3.4.21.64, _{or} | t. 2, H334, Resp. Sens. 1 | CAS No.: 39450-01-6I | |
| | TSCA Inventory: EC No.: | listed (CAS 102925-54-2) 254-457-8 | Indice No.: | 647-014-00-9 | |
| | RTECS: KE No.: Concentration: | - not listed 1 - <3 % | MFCD: | 00132129 | |
| | acc. CLP (GHS): | The criteria for classification are not fulfille | ed. | | |
| | Chemical: glycer Classification: | | | CAS No.: 56-81-5 | |
| | Formula: Pseudonym: TSCA Inventory: REACH Reg. No.: | No criteria for classification or naming of C ₃ H ₈ O ₃ glycerin, 1,2,3-propanetriol listed (1,2,3-Propanetriol) 01-2119471987-18-xxxx | | | |
| | EC No.: RTECS: KE No.: | 200-289-5 MA8050000 KE-29297 | Indice No.: MFCD: | n/a 00004722 | |
| | Concentration: acc. CLP (GHS): | 50 - <80 % The criteria for classification are not fulfill | ed. | | |
| 125 mL ' | VL | | | | |
| | Classification: Formula: Pseudonym: TSCA Inventory: | line hydrochloride H302, Acute Tox. 4 oral, H315, S CH ₆ CIN ₃ guanidinium chloride listed | Skin Irrit. 2, H319, Eye Irrit | CAS No.: 50-01-1 . 2 | |
| | REACH Reg. No.: EC No.: RTECS: KE No.: | 01-2119977063-35-0005 200-002-3 MF4300000 KE-18111 | Indice No.: MFCD: | 607-148-00-0 00013026 | |
| | Concentration: acc. CLP (GHS): | 50 - <66 % H302, Acute Tox. 4 oral, H315, S | Skin Irrit. 2, H319, Eye Irrit | . 2 | |
| 125 mL \ | VW1 | | | | |
| | | line hydrochloride H302, Acute Tox. 4 oral, H315, S CH ₆ CIN ₃ guanidinium chloride listed 01-2119977063-35-0005 | Skin Irrit. 2, H319, Eye Irrit | CAS No.: 50-01-1 . 2 | |
| | EC No.: RTECS: KE No.: Concentration: | 200-002-3 MF4300000 KE-18111 36 - <50 % | Indice No.: MFCD: | 607-148-00-0 00013026 | |
| | acc. CLP (GHS): | H302, Acute Tox. 4 oral, H319, E | Eye Irrit. 2 | | |
| | Chemical: 2-prop Classification: Formula: Pseudonym: TSCA Inventory: REACH Reg. No.: | anol H225, Flam. Liq. 2, H319, Eye In C ₃ H ₈ O isopropanol, IPA, propan-2-ol listed 01-2119457558-25-XXXX | rit. 2, H336, STOT SE 3 | CAS No.: 67-63-0 | |
| | EC No.: RTECS: KE No.: Concentration: | 200-661-7 NT8050000 KE-29363 20 - <35 % | Indice No.: MFCD: | 603-117-00-0 00011674 | |
| | acc. CLP (GHS): | H226, Flam. Liq. 3, H319, Eye In | rit. 2, H336, STOT SE 3 | | |
| 50 mL V | W/2 | | | | |



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|---|---|--------------------|------------|
| Printing date: 14.02.2020 | Date of issue: 20.05.2019 | | _ |
| Chemical: <i>chem</i> Classification: TSCA Inventory: KE No.: Concentration: acc. CLP (GHS): | icals/mixture < 1% No criteria for classification or naming of chemical not required. all listed, <1% listed 0,1 - <1 % The criteria for classification are not fulfilled. | CAS No.: - | |
| 13 mL RNase-free H ₂ O Chemical: <i>water</i> Classification: Formula: TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS): | No criteria for classification or naming of chemical not required. H ₂ O listed exempt, Annex IV 231-791-2 ZC0110000 KE-35400 90 - <100 % The criteria for classification are not fulfilled. | CAS No.: 7732-18-5 | |
| 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.

4.1.1 After SKIN Contact

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

4.1.2 After EYE Contact

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

4.1.3 After INHALATION of vapours

After inhalation of foam or vapour fresh air should be inhaled. Keep airways free. ---

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

4.3 Indication of any immediate medical attention and special treatment needed No additionally recommendations. ---

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

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

5.3 Advice for firefighters

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

5.4 Additional information



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

| Printing | ng date: 14.02.2020 Date of issue: 20.0 | 5.2019 |
|----------|---|---|
| SECT | TION 6: Accidental release measures | |
| 6.1 | Personal precautions, protective equipment and en Do not breathe vapours. Regular staff training is necessary. | nergency procedures |
| 6.2 | Environmental precautions not necessary | |
| 6.3 | Methods and material for containment and cleaning Bind any escaping liquid with inert absorbent. Collect small amounts of leaked liquid and flush with water into drain | |
| 6.4 | Reference to other sections | |
| SEC | TION 7: Handling and storage | |
| 7.1 | Precautions for safe handling Handling in accordance with the test instruction, that comes with the | product. |
| 7.2 | Conditions for safe storage, including any incompa The original product package of MACHEREY-NAGEL allows a safe s Storage class (VCI): 3 Water hazard class (DE): 1 | atibilities |
| 7.2.1 | Requirements for stock rooms and containers Keep original product packages tightly closed during handling and | nd storage. |
| 7.3 | Specific end use(s) Product for analytical use. | |
| SEC | TION 8: Exposure controls/personal protectio | 'n |
| 8.1 | Control parameters | |
| | 0.09-1.0 mg Carrier RNA Chemical: carrier RNA | CAS No.: 26763-19-6 |
| | 1.5 mL Liquid Proteinase K Chemical: <i>proteinase K, liquid (origin: tritirachium album)</i> SUVA(CH) MAK value: 0,00006 _{15min} mg/m ³ | CAS No.: 39450-01-6I |
| | Chemical: glycerole DNEL: [inh] 56 mg/m ³ DNEL = Derived No-Effect Level (for workers) PNEC(fresh water): 0.885 mg/L PNEC = Predicted No Effected Concentration TRGS 900 (DE): 200 E mg/m ³ E/e respirable Short-term exposure factor: 2 (1), Y skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh | CAS No.: 56-81-5 |
| | SUVA(CH) MAK value: 50 e* mg/m ³ | |
| | Chemical: guanidine hydrochloride DNEL: [inh] 3.5 mg/m ³ DNEL = Derived No-Effect Level (for workers) PNEC(fresh water): - PNEC = Predicted No Effected Concentration NIOSH: not listed | CAS No.: 50-01-1 |
| | [TWA] Time-weighted average to a reference period of 8 hours, [STEL] OSHA: not listed | Short-term exposure limit related to a 15-minute period |
| | 125 mL VW1 | CAS No.: 50-01-1 |
| | Chemical: guanidine hydrochloride DNEL: [inh] 3.5 mg/m ³ DNEL = Derived No-Effect Level (for workers) PNEC(fresh water) : - | www.mr |

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

| Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansel or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1. Eye protection Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection. Skin protection Not necessary. 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 | | 0983.250 | NucleoSpin Virus (| , | Page: 7/12 |
|--|----------|--|--|--|-------------------------------|
| NIOSH: not listed ITWA Three-watering are ender to a the fours, [STEL] Short-term exposure init related to a 15-minute period OSHA: not listed Chemical: 2-propared CAS No:: 67-63-0 Differ: 140.9 mg/s PNEC period 200 ppm / 500 mg/m² PNEC period 200 ppm / 500 mg/m² PNEC period 200 ppm / 500 mg/m² TRGS 500 (DE): 200 ppm / 500 mg/m² Tress 500 (DE): 200 ppm / 500 mg/m² Tress 500 (DE): 200 ppm / 500 mg/m² Tress 500 (DE): 200 ppm / 900 mg/m² Chemical: relemination in the room, floor resistant to chemicals with floor drainage and washing facilities. The highest level of cleantines So mL VW2 CAS No :: 7732-18-5 Cas Respiratory protection Na editional recommendations. CAS No :: 7732-18-5 Cas | Printing | date: 14.02.2020 | Date of issue: 20.0 | 5.2019 | |
| [TWA] These weighted sensings to a reference protoci of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period OSH:::::::::::::::::::::::::::::::::::: | | PNEC = Predicted No Effe | ted Concentration | | |
| OSHA: not listed CAS No:: 67-83-0 DREL: Desc.: Section of the sectin of the section of the section of the section of the section of | | | | Short term expective limit related to a 15 minute pa | riad |
| DNEL: Devined No-Effect Lew View rowshees DNEC (not noted): 140.9 mg/L PNEC (not noted): TRGS 000 (DE): 200 ppm / 500 mg/m³ Evropable Short-term exposure factor: 2 (1), Y TRGS 003 (DE): 2 00 ppm / 500 mg/m³ Evropable Short-term exposure factor: 2 (1), Y RGS 003 (DE): 2 00 ppm / 500 mg/m³ Evropable SUVA/CH) MAK value: 2 00 ppm / 500 mg/m³ (TVA) 400 ppm / 900 mg/m³ (TVA) 400 ppm / 980 mg/m³ NICSH: TTWA 1400 ppm / 980 mg/m³ (TVA) 400 ppm / 980 mg/m³ S0 mL VV2 Chemical: chemicals/mixture < 1% | | | | Short-term exposure limit related to a 15-minute per | 100 |
| DNEL: Devined No-Effect Lew View rowshees DNEC (not noted): 140.9 mg/L PNEC (not noted): TRGS 000 (DE): 200 ppm / 500 mg/m³ Evropable Short-term exposure factor: 2 (1), Y TRGS 003 (DE): 2 00 ppm / 500 mg/m³ Evropable Short-term exposure factor: 2 (1), Y RGS 003 (DE): 2 00 ppm / 500 mg/m³ Evropable SUVA/CH) MAK value: 2 00 ppm / 500 mg/m³ (TVA) 400 ppm / 900 mg/m³ (TVA) 400 ppm / 980 mg/m³ NICSH: TTWA 1400 ppm / 980 mg/m³ (TVA) 400 ppm / 980 mg/m³ S0 mL VV2 Chemical: chemicals/mixture < 1% | | Chamical: 2 proposal | | CAS No - 67 62 | 0 |
| PNEC (mean start): 140.9 mg/L. PNEC (mean start): 200 ppm / 500 mg/m² Everypinable Short-term exposure factor: 2 (11), Y ann exaptive (1), reginable started (3a), skin sensitizable (5k), teratogenic (2) not securely excluded / (Y) certainly excluded SUVA(CH) MAK value: 200 ppm / 500 mg/m² TROS 500 (DE): Academ Bib. Ubi [25 mg/L the start of the start of the | | DNEL: | [inh] 500 mg/m ³ | CAS NO.: 67-63- | 0 |
| TRGS 900 (DE): 200 ppm / 500 mg/m ² Ber resprinter Short-term exposure factor: 2 (I), Y sen resprinter 200 ppm / 500 mg/m ² TRGS 903 (DE): (Actor BA): UB) 2 mg/L Ber Sen Status (Sh), sin sensitizate (Sh), sin sensitizate (Sh), territogenic (2) not securely excluded / (Y) certainly excluded NIOSH: (Pack BA): UB): TRGS 903 (DE): (Actor BA): UB): 28 mg/L Be Sock U and W a | | | | | |
| Ele régistrate Short-term exposure factor: 2(1), Y sin resortive (H), respiratory sensitizable (Sa), sin assistizable (Sb), teratogenic (2) not securely excluded / (f) certainly excluded SUVA(CH) MAK value: 200 pm / 500 mg/m² TRGS 903 (DE): [Pactorn BA, Ub] 25 mg]. A control (CH) MAK value: 200 pm / 500 mg/m² NIOSH: [TWA] 400 pm / 920 mg/m² OSHA: [TWA] 400 pm / 920 mg/m² OSHA: [TWA] 400 pm / 920 mg/m² S0 mL VW2 Chemical: chemicals/mixture < 1% | | | | | |
| start rescriptive (H), respiratory sensitization (Sa), start sensitization (Sa), terningencic (2) not securely excluded (Y) certainly excluded SUVAC(H) MAX value: 200 ppm / 500 mg/m² ITRGS 903 (DE): Index of the initiation, and or exposition or shift NIOSH:: TWAI Time-weighted average to a inference period of 8 hours, (STEL) Short-term exposure limit related to a 15-minute period OSHA: (TWAI Time-weighted average to a inference period of 8 hours, (STEL) Short-term exposure limit related to a 15-minute period S0 mL VW2 Chemical: cAS No.: - 13 mL RNase-free H ₂ O CAS No:: 7732-18-5 3.2 Exposure controls CAS No:: 7732-18-5 Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities. The highest level of cleantineses must be maintained at the workplace. 3.2.1 Respiratory protection No additional recommendations. 3.2.2 Hand protection Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansel or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1. 3.2.3 Eye protection Yes, safety glasses according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansel or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1. | | TRGS 900 (DE). | | | |
| TRGS 003 (DE): [Aceion Bb, Ub) [25 mg, U. Bubbod, Uuries a lonimation, beind of expedition or shift NIOSH: (TWA) 100 ppm / 1980 mg/m ³ NIOSH STEL: NIOSH STEL: (TWA) 400 ppm / 1980 mg/m ³ CAS NO:: (TWA) 100 ppm / 1980 mg/m ³ S0 mL WW2 CAS No:: - Chemical: ohemicals/mixture < 1% | | | | , teratogenic (Z) not securely excluded / (Y) certainl | y excluded |
| B block. U urine, a "no limitation, b and of exposition or shift NIOSH: IFUK] 400 ppm / 1225 mg/m ² IfVA] Time-weighted averance is a treference period of 8 hours. [STEL] Short-term exposure limit related to a 15-minute period OSHA: [TWA] 400 ppm / 980 mg/m ² SO nL WW2 Chemical: chemicals/mixture < 1% CAS No.: - 33 mL RNase-free H ₂ O Chemical: water CAS No.: - CAS No.: - CAS No.: - Society of cleaniness must be maintained at the workplace. Society of cleaniness must be maintained at the workplace. Society of cleaniness must be maintained at the workplace. Society of cleaniness must be maintained at the workplace. Society of cleaniness must be maintained at the workplace. Society of the soc | | | | | |
| NICSH STEL: 500 ppm / 1225 mg/m² ITWAJ Time-weighted averaging to a reference period of 8 hours. (STEL] Short-term exposure limit related to a 15-minute period OSHA: (TWA] 400 ppm / 980 mg/m² S0 mL VW2 Chemical: chemicals/mixture < 1% | | TRGS 903 (DE): | | exposition or shift | |
| TW4] Time-weighted average to a feterance period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period OSHA: [TWA] 400 ppm / 980 mg/m ² S0 mL WW2 Chemical: chastic structure < 1% | | | | | |
| So mL VW2 Chemica: CAS No.: - 13 mL RNase-free H; O Chemica: CAS No.: - 2.13 mL RNase-free H; O Chemica: CAS No.: 7732-18-5 3.2 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. 3.2.1 Respiratory protection No additional recommendations. 3.2.2 Hand protection Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansel or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1. 3.2.3 Eye protection Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection. 3.2.4 Skin protection Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection. 3.2.4 Skin protection Wot necessary. 3.2.5 Personal hygien 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. Rines 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 Odor: odorless 0.99-1.0 mg Carrier RNA Appearance: solid (lyoph) Colour: colourless Odor: odorless | | [TWA] Time-weighted aver | age to a reference period of 8 hours, [STEL] | Short-term exposure limit related to a 15-minute per | riod |
| Chemical: chemicals/inixture < 1% | | OSHA: | [1 WA] 400 ppm / 980 mg/m ³ | | |
| 13 mL RNase-free H ₂ O CAS No.: 7732-18-5 3.2 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. 3.2.1 Respiratory protection No additional recommendations. 3.2.2 Hand protection Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansel or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1. 3.2.3 Eye protection Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection. 3.2.4 Skin protection Not necessary. 3.2.5 Personal hygien 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 0.99-1.0 mg Carrier RNA Appearance: solid (lyoph.) Appearance: liquid Colour: colourless Odor: odorless pH: 7-8 Specific gravity: 1.1 g/cm ³ Solubility in water: 0.100 % | | | | | |
| Chemical: water CAS No: 7732-18-5 3.2 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. 3.2.1 Respiratory protection No additional recommendations. 3.2.2 Hand protection Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansel or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1. 3.2.3 Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection. 3.2.4 Skin protection Not necessary. 3.2.5 Personal Hygiane 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 if in water. Wash hands throroughly with soap and water when stopping work and before eating, and then apply protective skin cream. 3.2.5 Oug-1.0 mg Carrier RNA Appearance: solid (lyoph.) Colour: colourless Odor: odorless D.09-1.0 mg Carrier RNA Appearance: solid (lyoph.) Colour: colourless Odor: odorless D.09-1.0 mg Carrier RNA Appearance: solid (lyoph.) Ta glorm ³ Solubility in water: 0-100 % | | Chemical: <i>chemicals/mix</i> | ure < 1% | CAS No.: - | |
| 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 No additional recommendations. 8.2.2 Hand protection Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansel or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1. 8.2.3 Eye protection Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection. 8.2.4 Skin protection Not necessary. 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. Rins any other 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. 8.2.5 Odor: odorless 9.1 Information on basic physical and chemical properties 0.09-10 mg Carrier RNA Appearance: solid (lyoph.) Colour: colourless Odor: odorless 1.5 mL Liquid Proteinase K Appearance: ilquid Colour: colourless Odor: odorless 9.7.4 Specific gravity: 1.1 g/cm³ Solubility in water: 0.100 % 125 mL VL | | | | | |
| 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 No additional recommendations. 3.2.2 Hand protection Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansel or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1. 3.2.3 Eye protection Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection. 3.2.4 Skin protection Not necessary. 3.2.5 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 0.99-1.0 mg Carrier RNA Appearance: solid (lyoph.) Colour: colourless Odor: odorless 9.1 Information on basic physical and chemical properties opering gravity: 0.1 of gravity: 1.5 mL Liquid Proteinase K Appearance: liquid Colour: colourless Odor: odorless pH: 7-8 Specific gravity: 1.1 g/cm³ Solubility in water: 0.100 % <td></td> <td>Chemical: water</td> <td></td> <td>CAS No.: 7732-1</td> <td>18-5</td> | | Chemical: water | | CAS No.: 7732-1 | 18-5 |
| No additional recommendations. 3.2.1 Hand protection Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansel or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1. 3.2.3 Eye protection Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection. 3.2.4 Skin protection Not necessary. 3.2.5 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. SECCTION 9: Physical and chemical properties Odor: odorless 0.09-1.0 mg Carrier RNA Appearance: solid (lyoph.) Colour: colourless Odor: odorless 1.5 mL Liquid Proteinase K Appearance: liquid Colour: colourless 7-8 Specific gravity: Odor: odorless 9H: 7-8 Specific gravity: 1.1 g/cm ³ Solubility in water: Odor: odorless 125 mL VL Into VL Into water: Into water: | 8.2.1 | level of cleanliness must be main | | chemicals with floor drainage and washin | g facilities. The highest |
| Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansel or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1. 32.3 Eye protection Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection. 32.4 Skin protection Not necessary. 32.5 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. SECETION 9: Physical and chemical properties 0.09-1.0 mg Carrier RNA Appearance: solid (lyoph.) Colour: colourless Odor: odorless 1.5 mL Liquid Proteinase K Appearance: iliquid Colour: colourless Odor: odorless pH: 7-8 Specific gravity: 1.1 g/cm ³ Solubility in water: Odor: odorless 125 mL VL 0.100 % 125 mL VL | | | ns. | | |
| Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection. 3.2.4 Skin protection Not necessary. 3.2.5 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 9.1 Colour: colourless Odor: odorless 9.1 Information on basic physical and colour colourless Odor: odorless 9.1 Information on basic physical and colour colourless Odor: odorless 9.1 Information on basic physical and p | 8.2.2 | Yes, gloves according EN 37 | | | , or Nitril (f.ex. from Ansel |
| Not necessary. 3.2.5 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 0.09-1.0 mg Carrier RNA Appearance: solid (lyoph.) Colour: colourless Odor: odorless 1.5 mL Liquid Proteinase K Appearance: liquid Colour: colourless Odor: odorless pH: 7-8 Specific gravity: 1.1 g/cm ³ 0-100 % 125 mL VL Into WL Into WL | 8.2.3 | | g EN 166 with integrated side shiel | ls or wrap-around protection. | |
| 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 0.1 Information on basic physical and chemical properties 0.99-1.0 mg Carrier RNA Appearance: solid (lyoph.) Colour: colourless Odor: odorless 1.5 mL Liquid Proteinase K Odor: odorless pH: 7-8 Specific gravity: Solubility in water: 0-100 % 125 mL VL 125 mL VL | 8.2.4 | • | | | |
| 9.1 Information on basic physical and chemical properties 0.09-1.0 mg Carrier RNA Appearance: solid (lyoph.) Colour: colourless Odor: odorless 1.5 mL Liquid Proteinase K Appearance: liquid Appearance: liquid Colour: colourless pH: 7-8 Specific gravity: 1.1 g/cm³ Solubility in water: 0-100 % | 8.2.5 | Eating, drinking, smoking, tal with the skin, eyes and clothi | ng. Rinse any clothing on which the | substance has been spilled, and soak it i | n water. Wash hands |
| 0.09-1.0 mg Carrier RNA Appearance: solid (lyoph.) Colour: colourless Odor: odorless 1.5 mL Liquid Proteinase K Appearance: liquid Colour: colourless Odor: odorless pH: 7-8 Specific gravity: 1.1 g/cm³ 0-100 % Odor: odorless 125 mL VL 125 mL VL VL | SECT | ION 9: Physical and ch | emical properties | | |
| Appearance: solid (lyoph.) Colour: colourless Odor: odorless 1.5 mL Liquid Proteinase K Appearance: liquid Colour: colourless Odor: odorless PH: 7-8 7-8 Specific gravity: 1.1 g/cm³ Olour: 00 % 125 mL VL VL Description | 9.1 | Information on basic phy | sical and chemical proper | ies | |
| Appearance: liquid Colour: colourless Odor: odorless pH: 7-8 Specific gravity: 1.1 g/cm³ Solubility in water: 0-100 % | | | Colour: colourless | Odor: odorless | |
| pH: 7-8 Specific gravity: 1.1 g/cm³ Solubility in water: 0-100 % 125 mL VL | | · · · · · · | | | |
| Specific gravity: 1.1 g/cm³ Solubility in water: 0-100 % 125 mL VL 0.000 % | | | | Odor: odorless | |
| | | Specific gravity: | 1.1 g/cm ³ | | |
| | | | | | |
| | | | Colour: colourless | Odor: odorless | |
| | | | | | |
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according to Regulations 1907/2006/EC (REACh) and 2015/830/EU

| REF: 74 | 10983.250 | NucleoSpin Virus (2 | 250) | Page: 8/12 |
|---------------------------|--|--|-----------------|------------|
| Printing date: 14.02.2020 | | Date of issue: 20.0 | 5.2019 | |
| | pH: Specific gravity: | 4.5-5.2 1.18 g/cm³ | | |
| | 125 mL VW1 Appearance: liquid pH: Flash point: Specific gravity: | Colour: colourless 7-8 25 °C 1.06 g/cm³ | Odor: alcoholic | |
| | 50 mL VW2 Appearance: liquid pH: Specific gravity: | Colour: colourless 7-8 1.00 g/cm³ | Odor: odorless | |
| | 13 mL RNase-free H 2 O Appearance: liquid pH: Specific gravity: | Colour: colourless 6-8 1.0 g/cm³ | Odor: odorless | |

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

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.

0.09-1.0 mg Carrier RNA

| Chemical: | carrier RNA | CAS No.: 26763-19-6 |
|---------------------|-------------------------------------|---------------------|
| TSCA Inventory: | listed (CAS 9001-99-4) | |
| Japan CSCL/PRTR: | not listed, Japan PDSCL: not listed | |
| Japan ISHL: | not listed | |
| Korea Exist.Chem.In | ventory: KE-30341 | |

1.5 mL Liquid Proteinase K

| - | | | |
|----------------------|-------------------------------------|----------------|----------------------|
| Chemical: | proteinase K, liquid (origin: triti | rachium album) | CAS No.: 39450-01-6I |
| TSCA Inventory: | listed (CAS 102925-54 | -2) | |
| Japan CSCL/PRTR: | not listed | , | |
| Japan ISHL: | not listed | | |
| Korea Exist Chem Inv | entory: not listed | | |



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

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|--|---|---|-------------------|
| Printing date: 14.02.2020 | Da | e of issue: 20.05.2019 | |
| | | | |
| Chemical: TSCA Inventory: | <i>glycerole</i> listed (1,2,3-Propa | CAS No.: 56-81-5 | |
| Exposure Routes: | inhalation, skin and | | |
| Target Organs: | | tory system, kidneys | |
| Symptoms: | | , respiratory system; headache, nausea, vomiting; kidney injury | |
| Japan CSCL/PRTR: | | DSCL: not listed | |
| Japan ISHL: Korea Exist.Chem.In | not listed | | |
| LD50 _{orl rat} : | 12.6 g/kg | | |
| LD50 _{drm rbt} : | >18.7 g/kg | | |
| TRGS 905 (DE): | RFC | | |
| | | | |
| 125 mL VL Chemical: | guanidine hydrochloride | CAS No.: 50-01-1 | |
| TSCA Inventory: | listed | California Proposition 65 List: not listed | |
| Australia NICNAS: | not listed | Canada CEPA 1999: DSL yes | |
| Japan CSCL/PRTR: | not listed, Japan P | | |
| Japan ISHL: | not listed | | |
| South Korea TCCA: | not listed | | |
| Korea Exist.Chem.In LD50 _{orl rat} : | 475-907 mg/kg | | |
| LC50 _{ihl rat} : | [4h] 3181-7655 µg | ′m³ | |
| LD50 _{drm rbt} : | 2000 mg/kg | | |
| Acute Effects: Cause | e after oral intake, impairme | nts of health when ingested in small quantities. | |
| 125 mL VW1 | | | |
| Chemical: | guanidine hydrochloride | CAS No.: 50-01-1 | |
| TSCA Inventory: | listed | California Proposition 65 List: not listed | |
| Australia NICNAS: Japan CSCL/PRTR: | not listed not listed, Japan P | Canada CEPA 1999: DSL yes | |
| Japan ISHL: | not listed | BOOL. Not listed | |
| South Korea TCCA: | not listed | | |
| Korea Exist.Chem.In | | | |
| LD50 _{orl rat} : | 475-907 mg/kg | | |
| LC50 _{ihl rat} : LD50 _{drm rbt} : | [4h] 3181-7655 µg 2000 mg/kg | m° | |
| Acute Effects: Cause | | nts of health when ingested in small quantities. | |
| Chemical: | 2-propanol | CAS No.: 67-63-0 | |
| TSCA Inventory: | listed | California Proposition 65 List: not listed | |
| ACGIH: Exposure Routes: | 1230 ppm | n, skin and/or eye contact | |
| Target Organs: | Eyes, skin, respira | | |
| Symptoms: | | e, throat; drowsiness, dizziness, headache; dry cracking skin; in a | animals: narcosis |
| Australia NICNAS: | • | Canada CEPA 1999: DSL yes | |
| Japan CSCL/PRTR: | | | |
| Japan ISHL: South Korea TCCA: | listed ≥1,0%/≥0,1% | o, Article 57-2 (SDS required) | |
| Korea Exist.Chem.In | ventory: KF-29363 | | |
| LD50 _{orl rat} : | 5045 mg/kg | | |
| LC Low _{orl hmn} : | 3570 mg/kg | | |
| LC50 _{ihl rat} : | 16 _{4h} g/m³ | | |
| LD50drm rbt : | 12.8 g/kg | | |
| TRGS 905 (DE): | R _F C | | |
| 50 mL VW2 | | | |
| Chemical: | chemicals/mixture < 1% | CAS No.: - | |
| TSCA Inventory: Korea Exist.Chem.In | all listed, <1% | | |
| NOICA EXISLOIICIII.III | ventory. IIsteu | | |
| | | | |
| | | | |
| | | | www.mn-ne |



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

| 0983.250 date: 14 02 2020 | NucleoSpin Virus (250) Date of issue: 20 05 2019 | | Page: 10/1 |
|---|--|--|---|
| | Date 6113500. 20.00.2015 | | |
| Chemical: water TSCA Inventory: liste | | CAS No.: 7732-18-5 | |
| ION 12: Ecological inform | ation | | |
| Toxicity | | | |
| Following information is valid for p | ure substances. | | |
| 0.09-1.0 mg Carrier RNA Chemical: carrier | RNA | CAS No.: 26763-19-6 | |
| 1.5 mL Liquid Proteinase K Chemical: protein Water hazard class (DE): Storage class (VCI): | ase K, liquid (origin: tritirachium album) 1 13 | CAS No.: 39450-01-6I | |
| | | CAS No.: 56-81-5 | |
| LC50fish/96h: EC50 _{daphnia/48h} : IC50scenedesmus quadricauda/72 EC10 _{pseudomonas} putita/16h: Water hazard class (DE): | >5000 _{24h} mg/L >10 _{24h} g/L h: IC5 _{7d} >10 g/L EC5: >10 g/L 0 | | |
| PNEC _(fresh water) : | - | CAS No.: 50-01-1 | |
| LC50leuciscus idus/96h : LC50fish/96h : EC50daphnia/48h : EC10pseudomonas putita/16h : Water hazard class (DE): Storage class (VCI): | 1759 mg/L [4d] 690-1850; [48h] 1758-2420 mg/L 70.2 mg/L [72h] 11.8-33.5 mg/L 1 WGK No.: 0788 12 | | |
| | | CAS No.: 50-01-1 | |
| LC50leuciscus idus/96h : LC50lfish/96h : EC50daphnia/48h : EC10pseudomonas putita/16h : Water hazard class (DE): Storage class (VCI): | 1759 mg/L [4d] 690-1850; [48h] 1758-2420 mg/L 70.2 mg/L [72h] 11.8-33.5 mg/L 1 WGK No.: 0788 12 | | |
| | | CAS No.: 67-63-0 | |
| LC50fish/96h : EC50 _{daphnia/48h} : IC50 _{scenedesmus} quadricauda/72 EC10 _{pseudomonas} putita/16h : Water hazard class (DE): | 1400 mg/L 13.3 g/L h : >1000 mg/L EC5: 1050 mg/L 1 WGK No.: 0135 | | |
| | date: 14.02.2020 13 mL RNase-free H ₂ O Chemical: water TSCA Inventory: Iste Korea Exist.Chem.Inventory: KE- ION 12: Ecological inform Toxicity Following information is valid for pr 0.09-1.0 mg Carrier RNA Chemical: carrier 1.5 mL Liquid Proteinase K Chemical: protein Water hazard class (DE): Storage class (VCI): Chemical: glycerce PNEC (fresh water) : PNEC = Predicted No Effected Cond LC50fish/96h : EC50daphnia/48h : IC50scenedesmus quadricauda/72 EC10pseudomonas putita/16h : Water hazard class (DE): Dispersion coefficient(octanol- Storage class (VCI): 125 mL VL Chemical: guanid PNEC (fresh water) : PNEC = Predicted No Effected Cond LC50fish/96h : EC50daphnia/48h : EC10pseudomonas putita/16h : Water hazard class (DE): Storage class (VCI): 125 mL VL Chemical: guanid PNEC = Predicted No Effected Cond LC50fish/96h : EC50daphnia/48h : EC10pseudomonas putita/16h : Water hazard class (DE): Storage class (VCI): 125 mL WI Chemical: guanid PNEC = Predicted No Effected Cond LC50fish/96h : EC50daphnia/48h : EC10pseudomonas putita/16h : Water hazard class (DE): Storage class (VCI): 125 mL WI Chemical: guanid PNEC (fresh water) : PNEC = Predicted No Effected Cond LC50fish/96h : EC50daphnia/48h : EC10pseudomonas putita/16h : Water hazard class (DE): Storage class (VCI): 125 mL WI Chemical: 2-prope PNEC = Predicted No Effected Cond LC50fish/96h : EC50daphnia/48h : EC10pseudomonas putita/16h : Water hazard class (DE): Storage class (VCI): Chemical: 2-prope | date: 14.02.2021 Determinants: 20.05.2019 13 mL RNass-free H_2 O Chemical: water TSC humical: water Store Exist Chem. Inventory: KE-35400 Constitution: Isted Korea Exist Chem. Inventory: KE-35400 Constitution: State of the substances. 0.99-1.0 mg Carrier RNA Differential: carrier RNA 1.5 mL Liquid Proteinase K Chemical: proteinase K, <i>liquid (origin: tritirachium album)</i> Water hazard class (DE): 1 Storage class (VCI): 13 Chemical: glycerole PNEC (fresh water): PNEC (fresh water): PNEC = Predicted No Effected Concentration PNEC = Predicted No Effected Concentration Dispersion coefficient(octanol-water): 1.76 Storage class (VCI): 10 125 mL VI Chemical: gluanidine hydrochloride PNEC (fresh water): PNEC (fresh water): Cool Dispersion coefficient(octanol-water): 1.76 Storage class (VCI): 10 125 mL VI Chemical: gluanidine hydrochloride PNEC (fresh water): Cool Dispersion coefficient(octanol-water): 1.76 Storage class (VCI): 10 125 mL VI Chemical: gluanidine hydrochloride PNEC (fresh water): PNEC (| date: 14.02.2020 Date of fissue: 20.05.2019 13 mL RNase-free H; 0 CAS No: 7732-18-5 Chemical: water TSCA Inventory: listed Korea Exist.Chem.Inventory: KE:35400 CAS No: 7732-18-5 CON 12: Ecological information Toxicity Following information is valid for pure substances. 0.09-10 mg Carrier RNA CAS No: 26763-19-6 1.5 mL Liquid Proteinase K. Iiquid (origin: tritirachium album) CAS No: 39450-01-61 Using a case (VCI): 1.3 Chemical: proteinase K. Iiquid (origin: tritirachium album) CAS No: 366-81-5 CAS No: 56-81-5 CAS No: 56-81-5 PMEC grass water): Colspan="2">CAS No: 56-81-5 CAS No: 56-81-5 CAS No: 56-81-5 CAS No: 56-81-5 PMEC grass water): Colspan="2">CAS No: 50-01-1 COlspan="2">CAS No: 50-01-1 CAS No: 50-01-1 CAS No: 50-01-1 CAS No: 50-01-1 CAS No: 50-01-1 COntractical Case (CPE): |



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

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|----------|--|------------------------------|
| Printing | g date: 14.02.2020 Date o | f issue: 20.05.2019 |
| | 50 mL VW2 Chemical: chemicals/mixture < 1% Water hazard class (DE): 1 Storage class (VCI): 12-13 | CAS No.: - |
| | 13 mL RNase-free H ₂ O Chemical: <i>water</i> | CAS No.: 7732-18-5 |
| 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 | |

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.

SECTION 14: Transport information

| 14.1 UN number: 14.3 Class: | | UN proper shipping n Packing group: III | name: Flammable liquid, n.o.s. (2-propanol mixture) |
|--------------------------------|----------|--|---|
| Road transport | | | |
| Classification code: | F1 | | |
| Limited Quantity: | 5 L | Tunnel restriction cod | de: E |
| Excepted Quantity: | E 1 | Special instructions: | 640E |
| Air transport | | | |
| PAX: | 355 | max. weight PAX: | 60 L |
| CAO: | 366 | max. weight CAO: | 220 L |
| Maritime transport | | | |
| EmS: | F-E, S-E | Storage category: | A |

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.



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

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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. |
| | H336 | May cause drowsiness or dizziness. |
| | | |
| 16.1.2 | List of relevan | it P phrases |
| 16.1.2 | List of relevan P210 | It P phrases Keep away from heat/sparks/open flames/hot surfaces. No smoking. |
| 16.1.2 | | |
| 16.1.2 | P210 | Keep away from heat/sparks/open flames/hot surfaces. No smoking. |
| 16.1.2 | P210 P260D | Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not breathe vapours. |

Rinse mouth.

P301+312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P330

16.2 **Training advice**

1

Regular safety training.

16.3 Recommended restriction on use

Only for professional user.

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

16.4 Further information

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

Revisions/Updates

Reason for Revision: 2016-03 Adaptation of regulation 1221/2015/EU 2017-11 Adaption of ECHA Registration dossier

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