MACHEREY-NAGEI



Safety Data Sheet

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

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

| 1.1 Product identifier |
|------------------------|
|------------------------|

REF Product name

745425.4 Protino 96 Ni-NTA (4x96)

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.

4 x 11 mL Protino® Ni-NTA Agarose 50% (= 5.5 mL)

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

Relevant identified uses

Product for analytical use. Exposure Scenario Classification according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0 The exposure scenario is integrated into sections 1-16. Uses advised against not described

1.3 Details of the supplier of the safety data sheet

Manufactured by:

MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11, 52355 Düren, GERMANY Tel.: +49 2421 969 0

E-mail: sds@mn-net.com (msds@mn-net.com)

1.4 Emergency telephone number

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

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

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

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

11 mL Protino® Ni-NTA Agarose 50% (= 5.5 mL)

| | GHS02 GHS07 | |
|-----------------------|------------------------------|--|
| Signal word | WARNING | |
| Hazard identification | Hazard classes/categories | |
| H226 H317 | Flam. Liq. 3 Skin 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.

11 mL Protino® Ni-NTA Agarose 50% (= 5.5 mL)





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REF: 745425.4 Protino 96 Ni-NTA (4x96) Page: 2/8 Date of issue: 30.07.2018 Printing date: 12.05.2021 Signal word: WARNING H317 May cause an allergic skin reaction. P261sh, P280sh Avoid breathing dust/vapours. Wear protective gloves/eye protection. 2.3 Other hazards Possible hazards from physicochemical properties Flammable properties. -Information pertaining to particular risks to human and possible symptoms Cause after skin contact, impairments of health when ingested in small quantities. May cause sensitization by skin contact, also in repeated contact of small amounts. 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 11 mL Protino® Ni-NTA Agarose 50% (= 5.5 mL) ethanol (diluted < 20 %) CAS No.: 64-17-5d Chemical: (denatured with 1%IPA/1%MEK, acc.2016/1867/EU) Classification: H225, Flam. Liq. 2 Formula: C2 H6 O; C2 H5 OH Pseudonym: ethyl alcohol, methylated spirit TSCA Inventory: listed REACH Reg. No.: 01-2119457610-43-xxxx 603-002-00-5 Indice No · EC No .: 200-578-6 RTECS: KQ6300000 MFCD: 00003568 KE No .: KE-13217 Concentration: 5 - <20 % acc. CLP (GHS): H226, Flam. Liq. 3 Chemical: agarose CAS No.: 9012-36-6 Classification: No criteria for classification or naming of chemical not required. **TSCA** Inventory: listed EC No .: 232-731-8 MFCD: 00081294 KE-00278 KE No.:

> acc. CLP (GHS): The criteria for classification are not fulfilled Chemical: resin suspension with Ni in nickel(II) complexes CAS No .: -H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H317, Skin Sens. 1, H332, Acute Tox. 4 inh., H334. Classification. Resp. Sens. 1, H341, Muta. 2, H350i, Carc. 1A, H360, Repr. 1B, H372, STOT RE 1, H410, Aquatic Chronic 1 Formula: Ni-complex-**TSCA** Inventory: listed (NiSO₄ CAS 7786-81-4) REACH Reg. No.: NiSO4: 01-2119439361-44-xxxx EC No .: 232-104-9 (NiSO4) 028-009-00-5 (NiSO4) Indice No.: QR9600000 (NiSO4) RTECS Concentration: 0.038 - <0.38 % acc. CLP (GHS): H317, Skin Sens. 1

3.3 Remarks

When not listed, mixtures are added with water [CAS No. 7732-18-5] to 100%.

1 - <10 %

List of H and P phrases: see section 16.1

Concentration:



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SECTION 4: FIRST and 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 immediately. Rinse the affected skin or mucous membrane thoroughly for min. 15 minutes under running water. (If possible) use soap. Avoid neutralisation. Then apply a loose bandage.

4.1.2 After EYE Contact

After contact with the eyes rinse thoroughly under running water with the eyelid wide open 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

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

4.3 Indication of any immediate medical attention and special treatment needed

After SKIN CONTACT rinse with water for a long time. Apply glucocorticosteroides following inflammatory reactions. 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. 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 procedures

Do not breathe vapours. Wear suitable protective gloves (see 8.2.2). Wear eye protection. Regular staff training is necessary, indicating hazards and precautions on the basis of operating instructions. Restrictions on activity must be observed.

6.2 Environmental precautions

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

see information in section 5.4 --



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| SEC | TION 7: Handling and st | torage | |
| 7.1 | Precautions for safe han Handling in accordance with the t | dling est instruction, that comes with the product. | |
| 7.2 | | ge, including any incompatibilities MACHEREY-NAGEL allows a safe storage. 3 2 | |
| 7.2.1 | Requirements for stock ro Keep original product packag | oms and containers ges tightly closed during handling and storage. | |
| 7.3 | Specific end use(s) Product for analytical use. | | |
| SEC | TION 8: Exposure contr | ols/personal protection | |
| 8.1 | Control parameters | | |
| | SUVA(CH) MAK value: NIOSH: [TWA] Time-weighted aver OSHA: Chemical: <i>agarose</i> Chemical: <i>resin suspensu</i> TRGS 900 (DE): Short-term exposure factor: skin resorptive (H), respir SUVA(CH) MAK value: SUVA(CH) BAT value: NIOSH: | [derm] 343 mg/kg; [inh] 950 mg/m ³ Level (for workers) 0.96 mg/L cted Concentration 200 ppm / 380 mg/m ³ E/e respirable 4 (II), Y atory sensitizable (Sa), skin sensitizable (Sh), teratogenic 500 ppm / 960 mg/m ³ [TWA] 1000 ppm / 1900 mg/m ³ age to a reference period of 8 hours, [STEL] Short-term ex 1000 ppm / 1900 mg/m ³ <i>Ton with Ni in nickel(II) complexes</i> - (0,05 ENiSO4 att) mg/m ³ E/e respirable | xposure limit related to a 15-minute period CAS No.: 9012-36-6 CAS No.: - (Z) not securely excluded / (Y) certainly excluded |
| | OSHA: | TWA 1 mg/m³ | |
| 8.2 | Exposure controls Good ventilation and extraction s level of cleanliness must be main | | with floor drainage and washing facilities. The highest |
| 8.2.1 | Respiratory protection No additional recommendation | | |
| 8.2.2 | , 0 | /4 (permeation time >30 min - level 2), consist chemical resistant latex gloves with code EN 3 | of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansel 374-3 level 1. |
| | • | č | |

8.2.3 Eye protection

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.



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

11 mL Protino® Ni-NTA Agarose 50% (= 5.5 mL) Appearance: liquid Colour: slighthly green Flash point: 41 °C Particle size: 45-165 µm

Odor: alcoholic

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 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.

11 mL Protino® Ni-NTA Agarose 50% (= 5.5 mL)

| Chemical: | ethano | Ι | | CAS No.: 64-17-5d |
|------------------------------|------------|---------------------------|---------------------------------|---|
| TSCA Inventory: | | listed | California Proposition 65 List: | :: not listed |
| ACGIH: | | 1000 ppm | | |
| Exposure Routes: | | inhalation, ingestion, | , skin and/or eye contact | |
| Target Organs: | | | | tem, liver, blood, reproductive system |
| Symptoms: | | , , , | nose; headache, drowsiness, la | assitude (weakness, exhaustion), narcosis; cough; |
| liver damage; anem | ia; reproc | | | |
| Australia NICNAS: | | not listed | Canada CEPA 1999: | DSL yes |
| Japan CSCL/PRTR | | not listed, Japan PD | | |
| Japan ISHL: | | , , , | Article 57-2 (SDS required) | |
| South Korea TCCA: | | not listed | | |
| Korea Exist.Chem.li | nventory: | | | |
| LD50 _{orl rat} : | | 6200 mg/kg | | |
| LC_Low _{ihl gpg} : | | 21.9 g/m³ | | |
| LC_Low _{orl hmn} : | | 1400 mg/kg | | |
| LC50ihl mouse : | | [4h] 39 g/m³ | | |
| LC50 _{ihl rat} : | | [10h] 20 g/m ³ | | |
| LD50 _{drm rbt} : | | 20 000 mg/kg | | |
| LD50 _{oral mouse} : | | 3450 mg/kg | | |
| TRGS 905 (DE): | | K5, M5, R _F C | | |
| . | | | | |
| Chemical: | agaros | | | CAS No.: 9012-36-6 |
| TSCA Inventory: | | listed | | |
| Korea Exist.Chem.li | nventory: | KE-00218 | | |
| | | | | |

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| | resin suspension with Ni in nickel(II) complexes listed (NiSO₄ CAS 7786-81-4) inhalation, ingestion, skin and/or eye contact Nasal cavities, lungs, skin; [lung and nasal cance sensitization dermatitis, allergic asthma, pneumo PRTR: ≥0,1% specific class I, Japan PDSCL: no listed ≥0,1%/≥0,1%, 264 _{NiSO4} mg/kg after skin contact, impairments of health when ingested i ated contact of small amounts. carc. 1A, mut. 2, repr. 1B K1 | n ⁱ tis; [potential occupational carcinogen] t listed |

SECTION 12: Ecological information

12.1 Toxicity

Following information is valid for pure substances.

| mL Protino® Ni-NTA Agarose 50% Chemical: ethanol | (| CAS No.: 64-17-5d |
|---|---|-------------------|
| PNEC(fresh water) : PNEC = Predicted No Effected Concentration | 0.96 mg/L ⁿ | |
| LC50daphnia magna/48h : LC50pimephales promelas/96h : LC50leuciscus idus/96h : LC50fish/96h : EC50daphnia/48h : IC50scenedesmus quadricauda/72h : EC10pseudomonas putita/16h : Water hazard class (DE): Dispersion coefficient(octanol-water) : Storage class (VCI): | >100 g/L 13.4-15.1 g/L [48h] 8.14 g/L 13 g/L 9.3-14.2 g/L [7d] 5000 mg/L [EC5] 6500 mg/L 1 WGK No.: 0096 -0.31 3 | |
| Chemical: agarose Water hazard class (DE): Storage class (VCI): | nwg 13 | CAS No.: 9012-36- |
| Chemical: resin suspens Water hazard class (DE): Storage class (VCI): | ion with Ni in nickel(II) complexes 2 6.1D | CAS No.: - |

12.2 Persistence and degradability

not necessary

12.3 **Bioaccumulative potential** not necessary

12.4 Mobility in soil not necessary

- Results of PBT and vPvB assessment 12.5 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: No dangerous goods according the transport regulations (Ethanol: ADR SI144/ IATA A58)

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.

Chemical safety assessment 15.2

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

Flammable liquid and vapour. H226 H317 May cause an allergic skin reaction. 16.1.2 List of relevant P phrases P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P261sh Avoid breathing dust/vapours. P280sh Wear protective gloves/eye protection.

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)

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Revisions/Updates

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

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