## CHEREY-NAGE



# **Safety Data Sheet**

## according to Regulations REACh 1907/2006/EC

REF: 745500.10 Protino Glutathione Agarose 4B (10 mL) Page: 1/9 Date of issue: 22.08.2022 Printing date: 20.07.2023 Version: 2.2.3.2

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

1.1 **Product identifier** 

> RFF 745500.10

Product name Protino Glutathione Agarose 4B (10 mL)

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 10 mL Protino® Glutathione Agarose 4B (13.3 mL SUSPIe2BERN)M305-D20H-RFD3

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

Relevant identified uses

Product for analytical use.

Exposure Scenario Classification according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0

The exposure scenario is integrated into sections 1-16.

Uses advised against

not described

#### 1.3 Details of the supplier of the safety data sheet

Manufactured by:

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

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

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

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

DE: Gemeinsames Giftinformationszentrum (GGIZ) 99089 Erfurt tel. +49 361 730 730, <https://www.ggiz-erfurt.de>

You find our current versions of SDS in Internet:

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

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

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



GHS02

**WARNING** Signal word

Hazard identification Hazard classes/categories

H226 Flam. Liq. 3

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

10 mL Protino® Glutathione Agarose 4B (13.3 mL Suspension)



Signal word WARNING

Hazard identification Hazard classes/categories

H226 Flam. Liq. 3



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List of H phrases: see section 16.2

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

According **CLP directive** inner packages must be only labelled with GHS symbol(s) and product identificator(s) (EU 1272/2008 Annex I - 1.5.1.2). Harmful chemicals/mixtures with signal word: **WARNING** and highly flammable chemicals/mixtures must not be labelled with H and P phrases **until 125 mL** (EU 1272/2008 Annex I - 1.5.2).

10 mL Protino® Glutathione Agarose 4B (13.3 mL Suspension)



Signal word: WARNING

### Label elements of the complete product



Signal word: WARNING

### 2.3 Other hazards

Possible hazards from physicochemical properties

Flammable properties.

Information pertaining to particular risks to human and possible symptoms

Information pertaining to particular risks to the environment

Possible endocrine disrupting effects

no data available

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

## 3.1 Substances or 3.2 Mixtures

10 mL Protino® Glutathione Agarose 4B (13.3 mL Suspension)

Substance name: agarose CAS No.: 9012-36-6

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

EC No.: 232-731-8 Concentration: 1 - <10 %

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

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

(denatured with 1% 2-butanone)

Substance rating: H225, Flam. Liq. 2 Formula: C 2 H 6 O; C 2 H 5 OH

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

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

Concentration: 5 - <20 % acc. CLP (GHS): H226, Flam. Liq. 3



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### 3.3 Remarks

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

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitation if necessary. If necessary contact medical advice.

### 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

### 5.1.1 Suitable extinguishing media

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

### 5.1.2 Unsuitable extinguishing media

no data available

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

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

### 5.3 Advice for firefighters

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.

### 6.2 Environmental precautions

not necessary

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

Bind any escaping liquid with inert absorbent.

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



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#### 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.

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

Safe storage is guaranteed in the original packaging. Storage class (German chemical industry): see chapter 12.1

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

### 10 mL Protino® Glutathione Agarose 4B (13.3 mL Suspension)

Chemical: agarose CAS No.: 9012-36-6

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

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

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

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

Short-term exposure factor: 4 (II), Y

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

SUVA(CH) MAK value: 500 ppm / 960 mg/m<sup>3</sup>

NIOSH:

: [TWA] 1000 ppm / 1900 mg/m³ [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: 1000 ppm / 1900 mg/m<sup>3</sup>

#### 8.2 **Exposure controls**

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

#### 8.2.1 Respiratory protection

No additional recommendations.

#### 8.2.2 Skin protection / Hand protection

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

#### 8.2.3 **Eye / Face Protection**

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

#### 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. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.

#### 8.2.6 Thermal hazards

no data available

#### 8.3 Limitation and monitoring of environmental exposure

Do not release product into environment.



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

## 9.1 Information on basic physical and chemical properties

10 mL Protino® Glutathione Agarose 4B (13.3 mL Suspension) a) State of aggregation: b) Colour: slightly grey c) Odor: odorless d) Melting point: no data available e) Boiling point: no data available f) Flammability: no data available g) Explosive limits (lower / upper): no data available h) Flash point: no data available i) Flashing temperature: no data available j) Decomposition temperature: no data available k) pH value: no data available I) Kinematic viscosity: no data available m) Solubility in water: no data available n) Dispersion coefficient <sub>(o/w)</sub>: no data available o) Vapour pressure (20°C): no data available p) Specific gravity: no data available q) Relative vapour density (air=1): no data available r) Particle size: no data available

### 9.2 Other information

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

# **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

### 10.5 Incompatible materials

no additional data available

## 10.6 Hazardous decomposition products

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

## **SECTION 11: Toxicological information**

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

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

10 mL Protino® Glutathione Agarose 4B (13.3 mL Suspension)

Chemical: agarose CAS No.: 9012-36-6

TSCA Inventory: listed Korea Exist.Chem.Inventory: KE-00278

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

TSCA Inventory: listed California Proposition 65 List: not listed

ACGIH: 1000 ppm

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



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CAS No.: 9012-36-6

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Target Organs: Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system

Symptoms: irritation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; cough;

liver damage; anemia; reproductive, teratogenic

Australia NICNAS: not listed Canada CEPA 1999: DSL yes

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

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

 South Korea TCCA:
 not listed

 Korea Exist.Chem.Inventory:
 KE-13217

 LD50 orl rat:
 6200 mg/kg

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

 LC\_Low orl hmn:
 1400 mg/kg

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

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

 LD50 orl mus:
 3450 mg/kg

TRGS 905 (DE): K5, M5, R <sub>F</sub> C

### 11.2 Other hazards

Possible endocrine disrupting effects

no data available

Other information

no additional data available

## **SECTION 12: Ecological information**

### 12.1 Toxicity

Following information is valid for pure substances.

10 mL Protino® Glutathione Agarose 4B (13.3 mL Suspension)
Chemical: agarose

Chemical: agarose
Water hazard class (DE): nwg

Storage class (VCI): 13

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

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

PNEC = Predicted No Effected Concentration

LC50 daphnia magna/48h: >100 g/L

 LC50 pimephales promelas/96h:
 13.4-15.1 g/L

 LC50 leuciscus idus/96h:
 [48h] 8.14 g/L

 LC50 fish/96h:
 13 g/L

 EC50 daphnia/48h:
 9.3-14.2 g/L

 IC50 scenedesmus quadricauda/72h:
 [7d] 5000 mg/L

 EC10 pseudomonas putita/16h:
 [EC5] 6500 mg/L

 Water hazard class (DE):
 1 WGK No.: 0096

Dispersion coefficient (o/w): -0,31 Storage class (VCI): 3

### 12.2 Persistence and degradability

not necessary

## 12.3 Bioaccumulative potential

not necessary

## 12.4 Mobility in soil

not necessary

### 12.5 Results of PBT and vPvB assessment

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

### 12.6 Endocrine disrupting properties

no data available



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#### 12.7 Other adverse effects

no additional data available

## **SECTION 13: Disposal considerations**

Please observe local regulations for collection and disposal of hazardous waste and contact waste disposal company, where you will obtain information on laboratory waste disposal (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 - 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 Carriage in bulk by sea in accordance with IMO instruments

Not applicable.

## **SECTION 15: Regulatory information**

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

Dangerous Substances Protection Act (DE: Chemikaliengesetz - ChemG), Aug 2013, Stand: Okt 2020
Ordinance on protection against dangerous substances (E: Gefahrstoffverordnung - GefStoffV), Nov 2010, Stand: Mrz 2017

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

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

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

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

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

If necessary, observe other country-specific regulations.

#### 15.2 Chemical safety assessment

not necessary for these small amounts

## **SECTION 16: Other information**

### Changes compared to the last version 16.1

Between versions 2.2.3.2 and 2.2.2.2 following changes were applied: - 1 composition data corrected

#### 16.2 List of H and P phrases

#### 16.2.1 List of relevant H phrases

Flammable liquid and vapour. H226

#### 16.2.2 List of relevant P phrases

#### 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 Sources of key data

KÜHN, BIRETT, Leaflets on hazardous materials, 2021

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

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

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

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

Regulation 487/2013/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (4th ATP)

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

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



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

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

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

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

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

Regulation 878/2020/EU, adaptation of Annex II of the REACH regulation 197/2006/EG

Regulation 1182/2020/EÚ, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (15th ATP) Regulation 643/2021/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (16th ATP) Regulation 849/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (17th ATP) Regulation 692/2022/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (18th ATP)

### revisions/updates

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

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

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

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

#### 16.5 **Further information**

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

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#### 16.6 Legend / Abbreviations

acc: ADR: according

Convention concerning the International Carriage of Dangerous Goods by Road

Act:

BAT: biological workplace tolerance value

CAO: Cargo Aircraft Only carcinogen Carc:

Chemical Abstracts Service CAS:

CLP: Classification, Labelling and Packaging regulation

CMR: carcinogen, mutagen, reproduction toxic

Corr: corrosive

chemical oxigen demand COD.

Chemical Substance Control Law (Jp) CSCL:

Dam:

DNEL: Derived No-Effect Level (for workers)

derm: dermal dog: EC10: doa

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

EC: **European Community** 

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

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

Global Harmonized System of Classification and Labeling of Chemicals GHS:

gpg: ICAO:

International Civil Aviation Organization

inhaled ihl:

IMDG: International Maritime Dangerous Goods Code

intrav: intravenous ipt: intraperitonaeal

İSHL: Industrial Safety and Health Law (Jp)

LC50: letale concentration 50%

LD50: letale dosis 50% leuciscus idus fisch, ide, orfe

MAK: maximum workplace concentration

Met: Metall mus: mouse Muta: mutagen



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

NRD: Non-rapidly degradable

onchorhynchus mykiss: fish, rainbow trout

orl: oral

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

pH value pH:

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

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

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

RD: rapidly degradable

RE: repeated

REACh: Registration, Evaluation, Authorisation and Restriction of Chemicals

**REF** item number, reference number Reg.No.: rRegistration number harmful to reproduction Repr:

respiratory Resp:

RIP: **REACH Implementations Projects** 

scu: sub cutan SDS: safety data sheet Sens: sensitisation

STEL: short term exposure limit STOT: Specific Target Organ Toxicity SVHC: Substance of Very High Concern

t/a: tons per year

TCCA: Toxic Chemicals Control Act (S. Korea)

toxic

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

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

vPvB: very persistent, very bioaccumulating substance

### 16.7 Training advice

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



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