

# Safety Data Sheet

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

REF: 740569.10

NucleoSpin Blood QuickPure (10)

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Printing date: 15.11.2021

Date of issue: 18.09.2020

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

### 1.1 Product identifier

REF 740569.10  
Product name NucleoSpin Blood QuickPure (10)

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 13 mL BE  
1 x 13 mL BQ1  
1 x 7 mL BQ2  
1 x 1.8 mL PB  
1 x 1-75 mg Proteinase K (lyo)

### 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  
Valenciennr 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

### 2.0 Classification of the complete product



GHS07



GHS08

Signal word

DANGER

**Hazard identification**

**Hazard classes/categories**

H302 Acute Tox. 4 oral  
H315 Skin Irrit. 2  
H319 Eye Irrit. 2  
H334 Resp. Sens. 1

### 2.1 Classification of the substance or mixture

13 mL BE

Signal word

Do not need labelling as hazardous

No hazard class

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## 13 mL BQ1



GHS07

Signal word

WARNING

### Hazard identification

### Hazard classes/categories

H302

Acute Tox. 4 oral

H315

Skin Irrit. 2

H319

Eye Irrit. 2

## 7 mL BQ2

Signal word

Do not need labelling as hazardous

No hazard class

-

## 1.8 mL PB

Signal word

Do not need labelling as hazardous

No hazard class

-

## 1-75 mg Proteinase K (Iyo)



GHS07



GHS08

Signal word

DANGER

### Hazard identification

### Hazard classes/categories

H315

Skin Irrit. 2

H319

Eye Irrit. 2

H334

Resp. Sens. 1

## 2.2 Label elements

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

Harmful chemicals/mixtures with signal word: **WARNING** 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 sensiblizing substances.

## 13 mL BE

Do not need labelling as hazardous

Signal word: -

## 13 mL BQ1



GHS07

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Signal word: WARNING

## 7 mL BQ2

Do not need labelling as hazardous

Signal word: -

## 1.8 mL PB

Do not need labelling as hazardous

Signal word: -

## 1-75 mg Proteinase K (Iyo)



GHS07



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. ---

### 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

#### 13 mL BE

Chemical: chemicals/mixture < 1%

CAS No.: -

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.

#### 13 mL BQ1

Chemical: guanidine hydrochloride

CAS No.: 50-01-1

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

Formula: CH<sub>6</sub>ClN<sub>3</sub>

Pseudonym: guanidinium chloride

TSCA Inventory: listed

REACH Reg. No.: 01-2119977063-35-0005

EC No.: 200-002-3

Indice No.: 607-148-00-0

RTECS: MF4300000

MFCD: 00013026

KE No.: KE-18111

Concentration: 50 - <66 %

acc. CLP (GHS): H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2

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## 7 mL BQ2

Chemical: *sodium chloride*

CAS No.: 7647-14-5

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

Formula: NaCl

Pseudonym: salt

TSCA Inventory: listed

REACH Reg. No.: exempt, Annex V

EC No.: 231-598-3

RTECS: VZ4725000

KE No.: KE-31387

Concentration: 1 - <5 %

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

## 1.8 mL PB

Chemical: *glycerole*

CAS No.: 56-81-5

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

Formula: C<sub>3</sub>H<sub>8</sub>O<sub>3</sub>

Pseudonym: glycerin, 1,2,3-propanetriol

TSCA Inventory: listed (1,2,3-Propanetriol)

REACH Reg. No.: 01-2119471987-18-xxxx

EC No.: 200-289-5

RTECS: MA8050000

KE No.: KE-29297

Concentration: 10 - <50 %

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

Indice No.: n/a  
MFCD: 00004722

## 1-75 mg Proteinase K (Iyo)

Chemical: *proteinase K (origin: tritirachium album)*

CAS No.: 39450-01-6

Classification: H315, Skin Irrit. 2, H319, Eye Irrit. 2, H334, Resp. Sens. 1

Formula: Enzyme Comm. No. 3.4.21.64, origin: tritirachium album

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

EC No.: 254-457-8

RTECS: -

KE No.: not listed

Concentration: 90 - <100 %

acc. CLP (GHS): H315, Skin Irrit. 2, H319, Eye Irrit. 2, H334, Resp. Sens. 1

Indice No.: 647-014-00-9  
MFCD: 00132129

## 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 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. 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. ---

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## 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

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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## 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.

### 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): 10

Water hazard class (DE): 1

#### 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

#### 13 mL BE

Chemical: chemicals/mixture < 1%

CAS No.: -

#### 13 mL BQ1

Chemical: guanidine hydrochloride

DNEL: [inh] 3.5 mg/m<sup>3</sup>

DNEL = Derived No-Effect Level (for workers)

PNEC(fresh water): -

PNEC = Predicted No Effect Concentration

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

CAS No.: 50-01-1

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## 7 mL BQ2

Chemical: sodium chloride

CAS No.: 7647-14-5

## 1.8 mL PB

Chemical: glycerole

CAS No.: 56-81-5

DNEL: [inh] 56 mg/m<sup>3</sup>  
DNEL = Derived No-Effect Level (for workers)

PNEC<sub>(fresh water)</sub>: 0.885 mg/L  
PNEC = Predicted No Effect Concentration

TRGS 900 (DE): 200 E mg/m<sup>3</sup>  
E/e respirable

Short-term exposure factor: 2 (I), Y  
skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 50 e\* mg/m<sup>3</sup>

## 1-75 mg Proteinase K (Iyo)

Chemical: proteinase K (origin: tritirachium album)

CAS No.: 39450-01-6

SUVA(CH) MAK value: 0,00006<sub>15min</sub> 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

Use for open access of these substances for example a protection filter, class A/AX. 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 Ansell 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

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

#### 13 mL BE

Appearance: liquid

Colour: colourless

Odor: odorless

pH:

8-9

Specific gravity:

1.0 g/cm<sup>3</sup>

#### 13 mL BQ1

Appearance: liquid

Colour: colourless

Odor: odorless

pH:

4.5-5.2

Specific gravity:

1.18 g/cm<sup>3</sup>

#### 7 mL BQ2

Appearance: liquid

Colour: colourless

Odor: odorless

pH:

7.5-8.0

Specific gravity:

1.02 g/cm<sup>3</sup>

#### 1.8 mL PB

Appearance: liquid

Colour: colourless

Odor: alcoholic

Specific gravity:

1.11 g/cm<sup>3</sup>

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## 1-75 mg Proteinase K (lyo)

Appearance: solid (lyoph.)

Colour: slightly grey

Odor: odorless

## 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.

#### 13 mL BE

Chemical: *chemicals/mixture < 1%*  
TSCA Inventory: all listed, <1%  
Korea Exist.Chem.Inventory: listed

CAS No.: -

#### 13 mL BQ1

Chemical: *guanidine hydrochloride*  
TSCA Inventory: listed  
Australia NICNAS: not listed  
Japan CSCL/PRTR: not listed, Japan PDSCL: not listed  
Japan ISHL: not listed  
South Korea TCCA: not listed  
Korea Exist.Chem.Inventory: KE-18111  
LD50<sub>orl rat</sub>: 475-907 mg/kg  
LC50<sub>ihl rat</sub>: [4h] 3181-7655 µg/m³  
LD50<sub>drm rbt</sub>: 2000 mg/kg  
Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.

CAS No.: 50-01-1

California Proposition 65 List: not listed  
Canada CEPA 1999: DSL yes

#### 7 mL BQ2

Chemical: *sodium chloride*  
TSCA Inventory: listed  
Korea Exist.Chem.Inventory: KE-31387  
LD50<sub>orl rat</sub>: 3000 mg/kg  
LD50<sub>drm rbt</sub>: 10 g/kg

CAS No.: 7647-14-5

#### 1.8 mL PB



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Chemical: *glycerole* CAS No.: 56-81-5  
TSCA Inventory: listed (1,2,3-Propanetriol)  
Exposure Routes: inhalation, skin and/or eye contact  
Target Organs: Eyes, skin, respiratory system, kidneys  
Symptoms: irritation eyes, skin, respiratory system; headache, nausea, vomiting; kidney injury  
Japan CSCL/PRTR: not listed, Japan PDSCL: not listed  
Japan ISHL: not listed  
Korea Exist.Chem.Inventory: KE-29297  
LD50<sub>orl rat</sub>: 12.6 g/kg  
LD50<sub>drm rbt</sub>: >18.7 g/kg  
TRGS 905 (DE): R<sub>F</sub> C

## 1-75 mg Proteinase K (Iyo)

Chemical: *proteinase K (origin: tritirachium album)* CAS No.: 39450-01-6  
TSCA Inventory: listed (CAS 102925-54-2)  
Japan CSCL/PRTR: not listed  
Japan ISHL: not listed  
Korea Exist.Chem.Inventory: not listed  
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.

#### 13 mL BE

Chemical: *chemicals/mixture < 1%* CAS No.: -  
Water hazard class (DE): 1  
Storage class (VCI): 12-13

#### 13 mL BQ1

Chemical: *guanidine hydrochloride* CAS No.: 50-01-1  
PNEC(fresh water): -  
PNEC = Predicted No Effect Concentration  
LC50<sub>leuciscus idus/96h</sub>: 1759 mg/L  
LC50<sub>fish/96h</sub>: [4d] 690-1850; [48h] 1758-2420 mg/L  
EC50<sub>daphnia/48h</sub>: 70.2 mg/L  
EC10<sub>pseudomonas putida/16h</sub>: [72h] 11.8-33.5 mg/L  
Water hazard class (DE): 1 WGK No.: 0788  
Storage class (VCI): 12

#### 7 mL BQ2

Chemical: *sodium chloride* CAS No.: 7647-14-5  
Water hazard class (DE): 1  
Storage class (VCI): 12-13

#### 1.8 mL PB

Chemical: *glycerole* CAS No.: 56-81-5  
PNEC(fresh water): 0.885 mg/L  
PNEC = Predicted No Effect Concentration  
LC50<sub>fish/96h</sub>: >5000<sub>24h</sub> mg/L  
EC50<sub>daphnia/48h</sub>: >10<sub>24h</sub> g/L  
IC50<sub>scenedesmus quadricauda/72h</sub>: IC50<sub>7d</sub> >10 g/L  
EC10<sub>pseudomonas putida/16h</sub>: EC5: >10 g/L  
Water hazard class (DE): 0  
Dispersion coefficient<sub>(octanol-water)</sub>: -1.76  
Storage class (VCI): 10

## 1-75 mg Proteinase K (Iyo)



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Chemical: *proteinase K (origin: tritirachium album)*  
Water hazard class (DE): 1  
Storage class (VCI): 13

CAS No.: 39450-01-6

## 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.

## SECTION 14: Transport information

14.1 - 14.4: No dangerous goods according the transport regulations

### 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](http://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

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.

#### 16.1.2 List of relevant P phrases

P261sh Avoid breathing dust/vapours.

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|          |                                                                            |
|----------|----------------------------------------------------------------------------|
| 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 ArbSchG)!

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, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress

Regulation 669/2018/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress

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

Regulation 849/2021/EU, 4<sup>th</sup> 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