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

1.1 Product identifier

REF: 740951.50
Product name: NucleoSpin Blood (50)

REACH Registration number(s): see SECTION 3.1/3.2 or
A registration number for the substance(s) does not exist because the annual tonnage does not require registration or
the substance or its use is excluded from registration.

1 x 15 mL B3
1 x 12 mL B5
1 x 13 mL BE
1 x 30 mL BW
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
Neumann-Neander-Str. 6-8, 52355 Dueren, GERMANY
Tel.: +49 2421 989 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

GHS02  GHS07  GHS08

Signal word DANGER

Hazard identification Hazard classes/categories
H226 Flam. Liq. 3
H302 Acute Tox. 4 oral
H315 Skin Irrit. 2
H319 Eye Irrit. 2
H334 Resp. Sens. 1
H336, H335 STOT SE 3

2.1 Classification of the substance or mixture

15 mL B3
### Safety Data Sheet

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

<table>
<thead>
<tr>
<th>REF: 740951.50</th>
<th>NucleoSpin Blood (50)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Printing date: 08.06.2018</td>
<td>Date of issue: 06.06.2018</td>
</tr>
</tbody>
</table>

#### GHS07

**Signal word**  
**WARNING**

<table>
<thead>
<tr>
<th>Hazard identification</th>
<th>Hazard classes/categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>H302</td>
<td>Acute Tox. 4 oral</td>
</tr>
<tr>
<td>H319</td>
<td>Eye Irrit. 2</td>
</tr>
</tbody>
</table>

**12 mL B5**

- Do not need labelling as hazardous
- No hazard class

**13 mL BE**

- Do not need labelling as hazardous
- No hazard class

**30 mL BW**

- GHS02  
- GHS07

**Signal word**  
**WARNING**

<table>
<thead>
<tr>
<th>Hazard identification</th>
<th>Hazard classes/categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>H226</td>
<td>Flam. Liq. 3</td>
</tr>
<tr>
<td>H302</td>
<td>Acute Tox. 4 oral</td>
</tr>
<tr>
<td>H319</td>
<td>Eye Irrit. 2</td>
</tr>
<tr>
<td>H336, H335</td>
<td>STOT SE 3</td>
</tr>
</tbody>
</table>

**1.8 mL PB**

- Do not need labelling as hazardous
- No hazard class

**1-75 mg Proteinase K (lyo)**

- GHS07  
- GHS08

**Signal word**  
**DANGER**

<table>
<thead>
<tr>
<th>Hazard identification</th>
<th>Hazard classes/categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>H315</td>
<td>Skin Irrit. 2</td>
</tr>
<tr>
<td>H319</td>
<td>Eye Irrit. 2</td>
</tr>
<tr>
<td>H334</td>
<td>Resp. Sens. 1</td>
</tr>
</tbody>
</table>
2.2 Label elements

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

15 mL B3

GHS07
Signal word: WARNING

12 mL B5
Do not need labelling as hazardous
Signal word: -

13 mL BE
Do not need labelling as hazardous
Signal word: -

30 mL BW

GHS02 GHS07
Signal word: WARNING

1.8 mL PB
Do not need labelling as hazardous
Signal word: -

1-75 mg Proteinase K (lyo)

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. Flammable properties. ---

Information pertaining to particular risks to human and possible symptoms
Cause after oral intake, impairments of health when ingested in small quantities.
Kit contains small amounts of enzymes: May cause allergy or asthma symptoms or breathing difficulties if inhaled. -
Information pertaining to particular risks to the environment
PBT: not applicable
vPvB: not applicable

SECTION 3: Composition/information on ingredients

3.1 Substances or 3.2 Mixtures

15 mL B3
Chemical: guanidine hydrochloride
CAS No.: 50-01-1
Classification: H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2
Formula: CH₆ClN₃
Pseudonym: guanidinium chloride
TSCA Inventory: listed
REACH Reg. No.: 01-2119977063-35-0005
EC No.: 200-002-3
RTECS: MF4300000
KE No.: KE-18111
Concentration: 36 - <50 % acc.
acc. CLP (GHS): H302, Acute Tox. 4 oral, H315, Skin Irrit. 2

Chemical: polyoxyethylene sorbitan monolaurate (Tween® 20)
CAS No.: 9005-64-5
Classification: No criteria for classification or naming of chemical not required.
Formula: C₅₈H₁₁₄O₂₆
Pseudonym: Sorbitan, monododecanoate, poly(oxy-1,2-ethanediyl) derivs.
TSCA Inventory: listed
RTECS: TR7400000
KE No.: KE-31681
Concentration: 10 - <20 %
acc. CLP (GHS): The criteria for classification are not fulfilled.

12 mL B5
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 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.

30 mL BW
Chemical: guanidine hydrochloride
CAS No.: 50-01-1
Classification: H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2
Formula: CH₆ClN₃
Pseudonym: guanidinium chloride
TSCA Inventory: listed
REACH Reg. No.: 01-2119977063-35-0005
EC No.: 200-002-3
RTECS: MF4300000
KE No.: KE-18111
Concentration: 36 - <50 %
acc. CLP (GHS): H302, Acute Tox. 4 oral, H315, Skin Irrit. 2
Safety Data Sheet
according to Regulations 1907/2006/EC (REACH) and 2015/830/EU

REF: 740951.50  NucleoSpin Blood (50)  Page: 5/13
Printing date: 08.06.2018  Date of issue: 06.06.2018

Chemical: 2-propanol  CAS No.: 67-63-0
Formula: C3H8O
Pseudonym: isopropanol, IPA, propan-2-ol
TSCA Inventory: listed
REACH Reg. No.: 01-211947558-25-xxxx
EC No.: 200-661-7  Indice No.: 603-117-00-0
RTECS: NT80500000  MFCD: 00011674
KE No.: KE-29363
Concentration: 20 - <35 %

1.8 mL PB
Chemical: glycerole  CAS No.: 56-81-5
Classification: No criteria for classification or naming of chemical not required.
Formula: C3H8O3
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  Indice No.: n/a
RTECS: MA80500000  MFCD: 00004722
KE No.: KE-29297
Concentration: 10 - <50 %
acc. CLP (GHS): The criteria for classification are not fulfilled.

1-75 mg Proteinase K (lyo)
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  Indice No.: 647-014-00-9
RTECS: -  MFCD: 00132129
KE No.: not listed
Concentration: 90 - <100 %

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. ---
4.3 Indication of any immediate medical attention and special treatment needed
Inform patient respectively further measures and the possibility of long-term damages. ---

SECTION 5: Firefighting measures

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

5.2 Special hazards arising from the substance or mixture
WARNING: Flammable (GHS regulation). May form explosive vapour-air mixtures. Formation of hazardous and caustic vapour-air mixtures possible. ---

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

5.4 Additional information
---

SECTION 6: Accidental release measures

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

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): 3
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

15 mL B3
Chemical: guanidine hydrochloride

DNEL: [inh] 3.5 mg/m³
DNEL = Derived No-Effect Level (for workers)
PNEC(fresh water) = -
PNEC = Predicted No Effected Concentration
NIOSH: not listed
[STEL] Short-term exposure limit related to a 15-minute period
OSHA: not listed
Safety Data Sheet
according to Regulations 1907/2006/EC (REACH) and 2015/830/EU

REF: 740951.50  NucleoSpin Blood (50)
Printing date: 08.06.2018  Date of issue: 06.06.2018
Version: M V 4.9.0

Chemical: polyoxyethylene sorbitan monolaurate (Tween® 20)  CAS No.: 9005-64-5
12 mL B5  Chemical: chemicals/mixture < 1%  CAS No.: -
13 mL BE  Chemical: chemicals/mixture < 1%  CAS No.: -
30 mL BW  Chemical: guanidine hydrochloride  CAS No.: 50-01-1
DNEL: [inh] 3.5 mg/m³
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
Chemical: 2-propanol  CAS No.: 67-63-0
DNEL: [inh] 500 mg/m³
DNEL = Derived No-Effect Level (for workers)
PNEC (fresh water): 140.9 mg/L
PNEC = Predicted No Effect Concentration
TRGS 903 (DE): 200 ppm / 500 mg/m³
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: 200 ppm / 500 mg/m³

TRGS 900 (DE): 200 E mg/m³
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/m³

1.8 mL PB  Chemical: glycerole  CAS No.: 56-81-5
DNEL: [inh] 56 mg/m³
DNEL = Derived No-Effect Level (for workers)
PNEC (fresh water): 0.885 mg/L
PNEC = Predicted No Effect Concentration
TRGS 900 (DE): 200 E mg/m³
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/m³

1-75 mg Proteinase K (lyo)  Chemical: proteinase K (origin: tritirachium album)  CAS No.: 39450-01-6
SUVA(CH) MAK value: 0,0000615min mg/m³

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

15 mL B3
Appearance: liquid
pH: 3.5-4
Specific gravity: 1.15 g/cm³

12 mL B5
Appearance: liquid
pH: 7-8
Specific gravity: 1.00 g/cm³

13 mL BE
Appearance: liquid
pH: 8-9
Specific gravity: 1.0 g/cm³

30 mL BW
Appearance: liquid
Flash point: 25 °C
Specific gravity: 1.06 g/cm³

1.8 mL PB
Appearance: liquid
Specific gravity: 1.11 g/cm³

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.

SECTION 10: Stability and reactivity

10.1 Reactivity
no further data available.

10.2 Chemical stability
No known instability.

10.3 Possibility of hazardous reactions
Note: Can form very reactive substances with oxidizing agents. No further data available.

10.4 Conditions to avoid
Not necessary. ---

10.5 Incompatible materials
Avoid contact with strong acids or alkalines.

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

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

15 mL B3

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 PDSCL: not listed  
Japan ISHL: not listed

South Korea TCCA: not listed

Korea Exis.Chem.Inventory: KE-18111

LD₅₀ for rat: 475-907 mg/kg
LC₅₀ inh rat: [4h] 3181-7655 µg/m³
LD₅₀ derm rat: 2000 mg/kg

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

Chemical: polyoxyethylene sorbitan monolaurate (Tween® 20)  
CAS No.: 9005-64-5

TSCA Inventory: listed

Korea Exis.Chem.Inventory: KE-31681

12 mL B5

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

TSCA Inventory: all listed, <1%

Korea Exis.Chem.Inventory: listed

13 mL BE

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

TSCA Inventory: all listed, <1%

Korea Exis.Chem.Inventory: listed

30 mL BW

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 PDSCL: not listed  
Japan ISHL: not listed

South Korea TCCA: not listed

Korea Exis.Chem.Inventory: KE-18111

LD₅₀ for rat: 475-907 mg/kg
LC₅₀ inh rat: [4h] 3181-7655 µg/m³
LD₅₀ derm rat: 2000 mg/kg

Acute Effects: Cause after oral intake, impairments 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: 1230 ppm

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

Target Organs: Eyes, skin, respiratory system

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

Australia NICNAS: not listed  
Canada CEPA 1999: DSL yes

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

Japan ISHL: listed ≥1.0%/≥0.1%, Article 57-2 (SDS required)

South Korea TCCA: not listed

Korea Exis.Chem.Inventory: KE-29363

LD₅₀ for rat: 5045 mg/kg
LC₅₀ inh mm: 3570 mg/kg
LC₅₀ inh rat: 16µg/g/m³
LD₅₀ derm rat: 12.8 g/kg
TRGS 905 (DE): RF C

1.8 mL PB

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
Korea Exist.Chem.Inventory: KE-29297
LD50 for rat: 12.6 g/kg
LD50 for mouse: >18.7 g/kg

TRGS 905 (DE): RF 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.

15 mL B3

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

PNEC_{(fresh water)}: -
PNEC = Predicted No Effect Concentration
LC50_{leuciscus idus/96h}: 1759 mg/L
LC50_{leuciscus idus/96h}: [4d] 690-1850; [48h] 1758-2420 mg/L
EC50_{daphnia/48h}: 70.2 mg/L
EC10_{pseudomonas putita/16h}: [72h] 11.8-33.5 mg/L
Water hazard class (DE): 1
WGK No.: 0788
Storage class (VCI): 12

Chemical: polyoxyethylene sorbitan monolaurate (Tween® 20)
CAS No.: 9005-64-5

Water hazard class (DE): 1
Storage class (VCI): 10-11

12 mL B5

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

Water hazard class (DE): 1
Storage class (VCI): 12-13

13 mL BE

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

Water hazard class (DE): 1
Storage class (VCI): 12-13

30 mL BW

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

PNEC_{(fresh water)}: -
PNEC = Predicted No Effect Concentration
LC50_{leuciscus idus/96h}: 1759 mg/L
LC50_{leuciscus idus/96h}: [4d] 690-1850; [48h] 1758-2420 mg/L
EC50_{daphnia/48h}: 70.2 mg/L

Water hazard class (DE): 1
WGK No.: 0788
Storage class (VCI): 12-13

www.mn-net.com
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

UN 1993 class 3 III, Excepted Quantities (≤30 mL/Σ≤1 L) = ADR/ IATA E1
or
14.1 UN number: 1993 14.2 UN proper shipping name: Flammable liquid, n.o.s. (2-propanol mixture)
14.3 Class: 3 14.4 Packing group: III

Road transport
Classification code: F1
Limited Quantity: 5 L Tunnel restriction code: E
Excepted Quantity: E 1 Special instructions: 640E
Air transport
PAX: 355 max. weight PAX: 60 L
Safety Data Sheet
according to Regulations 1907/2006/EC (REACH) and 2015/830/EU

REF: 740951.50 NucleoSpin Blood (50) Page: 12/13
Printing date: 08.06.2018 Date of issue: 06.06.2018

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.

15.2 Chemical safety assessment
not necessary for these small amounts ---

SECTION 16: Other information

16.1 List of H and P phrases

16.1.1 List of relevant H phrases
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H336 May cause drowsiness or dizziness.

16.1.2 List of relevant P phrases
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P260D Do not breathe vapours.
P261sh Avoid breathing dust/vapours.
P264W Wash with water thoroughly after handling.
P280sh Wear protective gloves/eye protection.
P301+312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P330 Rinse mouth.
P342+311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

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

16.3 Recommended restriction on use
Only for professional user.
Look about employee restrictions for young people (f. ex. 94/33/EC or DE § 22 JArbSchG)
Look about employee restrictions for pregnant women and nursing women (f.ex. 92/85/EEC or for DE §§ 11-13 MuSchG 2017)!
An individual package of this product or test kit has a moderate hazardous potential.

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

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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
TRGS 900, German engineering rules governing limits in air at work, updated September 2016
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