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

### 1.1 Product identifier

REF 740399.250
Product name Exosome Precipitation Solution (Urine)

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 250 mL Exosome Precipitation Solution (Urine)
1 x 60 mL RNase-free $H_2O$

### 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

Information not necessary.

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

-

### 2.1 Classification of the substance or mixture

**250 mL Exosome Precipitation Solution (Urine)**

Do not need labelling as hazardous
Signal word -

No hazard class

**60 mL RNase-free $H_2O$**

Do not need labelling as hazardous
Signal word -

No hazard class

### 2.2 Label elements

**250 mL Exosome Precipitation Solution (Urine)**

Do not need labelling as hazardous
Signal word: -



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Version: M V 4.12.0

**60 mL RNase-free $H_2O$**

Do not need labelling as hazardous
Signal word: -

### 2.3 Other hazards

**Possible hazards from physicochemical properties**
According to our current status of knowledge and experience we state, that this product does not contain any substances, which - in accordance with EC regulations 1272/2008/EC, 1907/2006/EC and German Regulations for Hazardous goods - have to be declared as dangerous goods, either because of their applied concentration or because of their total amount in anyone kit.
An individual package has considerably less hazardous potential. ---

**Information pertaining to particular risks to human and possible symptoms**
---

**Information pertaining to particular risks to the environment**
---

**Other hazards**
---

## SECTION 3: Composition/information on ingredients

### 3.1 Substances or 3.2 Mixtures

**250 mL Exosome Precipitation Solution (Urine)**

Chemical: *polyethylene glycol 200, 600, 6000 ...* CAS No.: 25322-68-3
Classification: No criteria for classification or naming of chemical not required.
Formula: $HO(C_2H_4O)_nH$
Pseudonym: .alpha.-hydro-.omega.-hydroxy-poly(oxy-1,2-ethanediyl)
TSCA Inventory: listed
REACH Reg. No.: 01-2119958801-32-0000
EC No.: 203-473-3
RTECS: TQ3800000 MFCD: 01779603
KE No.: KE-20228
Concentration: 60 - <75 %
acc. CLP (GHS): The criteria for classification are not fulfilled.

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.

**60 mL RNase-free $H_2O$**

Chemical: *water* CAS No.: 7732-18-5
Classification: No criteria for classification or naming of chemical not required.
Formula: $H_2O$
TSCA Inventory: listed
REACH Reg. No.: exempt, Annex IV
EC No.: 231-791-2
RTECS: ZC0110000
KE No.: KE-35400
Concentration: 90 - <100 %
acc. CLP (GHS): The criteria for classification are not fulfilled.

### 3.3 Remarks

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

- - -



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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately.

**4.1.1 After SKIN Contact**
Not necessary.

**4.1.2 After EYE Contact**
Not necessary.

**4.1.3 After INHALATION of vapours**
Not necessary. ---

**4.1.4 After ORAL Intake**
Not necessary. ---

### 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

None.

### 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. Not necessary.

### 6.2 Environmental precautions

not necessary

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

Clean working area with water. Flush used 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.

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

The original product package of MACHEREY-NAGEL allows a safe storage.

| | |
|---|---|
| Storage class (VCI): | 11 |
| 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.



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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**250 mL Exosome Precipitation Solution (Urine)**
Chemical: *polyethylene glycol 200, 600, 6000 ...* CAS No.: 25322-68-3
TRGS 900 (DE): 1000 E mg/m³
E/e respirable
Short-term exposure factor: 8 (II), Y
skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded
SUVA(CH) MAK value: [MAK] 1000 mg/m³

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

**60 mL RNase-free $H_2O$**
Chemical: *water* CAS No.: 7732-18-5

### 8.2 Exposure controls

Not necessary.Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities.

**8.2.1 Respiratory protection**
Not necessary.

**8.2.2 Hand protection**
Not necessary.

**8.2.3 Eye protection**
Not necessary.

**8.2.4 Skin protection**
Not necessary.

**8.2.5 Personal hygiene**
Information not necessary.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**250 mL Exosome Precipitation Solution (Urine)**
Appearance: liquid | Colour: colourless | Odor: odorless

**60 mL RNase-free $H_2O$**
Appearance: liquid | Colour: colourless | Odor: odorless
pH: 6-8
Specific gravity: 1.0 g/cm³

### 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

None

### 10.2 Chemical stability

No known instability.

### 10.3 Possibility of hazardous reactions

None.

### 10.4 Conditions to avoid

Not known. ---



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### 10.5 Incompatible materials

Not known.

### 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.

#### 250 mL Exosome Precipitation Solution (Urine)

Chemical: *polyethylene glycol 200, 600, 6000 ...* CAS No.: 25322-68-3
TSCA Inventory: listed
Korea Exist.Chem.Inventory: KE-20228
$LD50_{orl\ rat}$ : >15 g/kg

Chemical: *chemicals/mixture < 1%* CAS No.: -
TSCA Inventory: all listed, <1%
Korea Exist.Chem.Inventory: listed

#### 60 mL RNase-free $H_2O$

Chemical: *water* CAS No.: 7732-18-5
TSCA Inventory: listed
Korea Exist.Chem.Inventory: KE-35400

## SECTION 12: Ecological information

### 12.1 Toxicity

**Following information is valid for pure substances.**

**250 mL Exosome Precipitation Solution (Urine)**

Chemical: *polyethylene glycol 200, 600, 6000 ...* CAS No.: 25322-68-3
Water hazard class (DE): 1 WGK No.: 0279
Storage class (VCI): 11

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

**60 mL RNase-free $H_2O$**

Chemical: *water* 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

no additional data available



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## SECTION 13: Disposal considerations

Not necessary.

### 13.1 Waste treatment methods

GENERAL: Empty solids into municipal waste, empty liquids diluted into drains. Normally it is possible to empty small amounts (diluted!) into drains.

## SECTION 14: Transport information

**14.1 - 14.4** Not necessary

### 14.5 Environmental hazards

none

### 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
MN Leaflet/User manual, also see www.mn-net.com
Look for your country-specific regulations.

### 15.2 Chemical safety assessment

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## SECTION 16: Other information

### 16.1 List of H and P phrases

#### 16.1.1 List of relevant H phrases

#### 16.1.2 List of relevant P phrases

### 16.2 Training advice

Regular safety training.

### 16.3 Recommended restriction on use

None

### 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
Regulation 849/2021/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
KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

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



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