

# Safety Data Sheet

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

REF: 740727.250  
Printing date: 14.02.2020

NucleoSpin Plasmid EasyPure (250)  
Date of issue: 03.06.2019

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

### 1.1 Product identifier

REF 740727.250  
Product name NucleoSpin Plasmid EasyPure (250)

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 75 mL A1  
1 x 100 mL A2 (with LyseControl)  
1 x 100 mL A3  
1 x 30 mL AE  
1 x 25 mL AQ  
1 x 300 µL Liquid RNase (100 mg/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  
Neumann-Neander-Str. 6-8, 52355 Dueren, GERMANY  
Tel.: +49 2421 969 0

**scientifix**

PO Box 662 South Yarra  
VIC 3141 Australia

[www.scientifix.com.au](http://www.scientifix.com.au)

**Free call:** 1800 007 900  
**T:** +61(0)3 8540 5900  
**F:** +61(0)3 9543 7827  
**E:** [info@scientifix.com.au](mailto:info@scientifix.com.au)

### 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

Signal word WARNING

Hazard identification	Hazard classes/categories
H302	Acute Tox. 4 oral
H315	Skin Irrit. 2
H319	Eye Irrit. 2

### 2.1 Classification of the substance or mixture

75 mL A1

Signal word Do not need labelling as hazardous  
-

No hazard class

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**100 mL A2 (with LyseControl)**



GHS07

Signal word: WARNING

Hazard identification	Hazard classes/categories
H315	Skin Irrit. 2
H319	Eye Irrit. 2

**100 mL A3**



GHS07

Signal word: WARNING

Hazard identification	Hazard classes/categories
H302	Acute Tox. 4 oral
H319	Eye Irrit. 2

**30 mL AE**

Signal word: Do not need labelling as hazardous

No hazard class

**25 mL AQ**

Signal word: Do not need labelling as hazardous

No hazard class

**300 µL Liquid RNase (100 mg/mL)**

Signal word: Do not need labelling as hazardous

No hazard class

## 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).

**75 mL A1**

Do not need labelling as hazardous  
Signal word: -

**100 mL A2 (with LyseControl)**

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GHS07

Signal word: WARNING

## 100 mL A3



GHS07

Signal word: WARNING

## 30 mL AE

Do not need labelling as hazardous  
 Signal word: -

## 25 mL AQ

Do not need labelling as hazardous  
 Signal word: -

## 300 µL Liquid RNase (100 mg/mL)

Do not need labelling as hazardous  
 Signal word: -

## 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. ---

### Information pertaining to particular risks to the environment

---

### Other hazards

---

## SECTION 3: Composition/information on ingredients

### 3.1 Substances or 3.2 Mixtures

#### 75 mL A1

Chemical: *chemicals/mixture < 1%*  
 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.

CAS No.: -

#### 100 mL A2 (with LyseControl)

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Chemical: *sodium hydroxide solution* (diluted < 2 %)      CAS No.: 1310-73-2d  
 Classification: H314, Skin Corr. 1B  
 Formula: NaOH•H<sub>2</sub>O  
 Pseudonym: diluted soda lye  
 TSCA Inventory: listed  
 REACH Reg. No.: 01-2119457892-27-xxxx  
 EC No.: 215-185-5      Indice No.: 011-002-00-6  
 RTECS: WB4900000  
 KE No.: KE-31487  
 Concentration: 0,5 - <1 %  
 acc. CLP (GHS): H315, Skin Irrit. 2, H319, Eye Irrit. 2

Chemical: *dodecyl sulfate, sodium salt*      CAS No.: 151-21-3  
 Classification: H228, Flam. Sol. 1, H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H318, Eye Dam. 1, H332, Acute Tox. 4 inh., H335, STOT SE 3, H412, Aquatic Chronic 3  
 Formula: C<sub>12</sub> H<sub>25</sub> NaO<sub>4</sub> S  
 Pseudonym: sodium lauryl sulfate, sulfuric acid monododecyl ester sodium salt  
 TSCA Inventory: listed  
 REACH Reg. No.: 01-2119489461-32-xxxx  
 EC No.: 205-788-1  
 RTECS: WT1050000      MFCD: 00036175  
 KE No.: KE-21884  
 Concentration: 0,1 - <1 %  
 acc. CLP (GHS): The criteria for classification are not fulfilled.

Chemical: *indicator dye(s)*      CAS No.: -  
 Classification: No criteria for classification or naming of chemical not required.  
 TSCA Inventory: all listed, <1%  
 Concentration: < 0,01 %  
 acc. CLP (GHS): The criteria for classification are not fulfilled.

**100 mL A3**

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: 36 - <50 %  
 acc. CLP (GHS): H302, Acute Tox. 4 oral, H319, Eye Irrit. 2

**30 mL AE**

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.

**25 mL AQ**

Chemical: *inorganic salts, declaration not necessary*      CAS No.: -  
 Classification: No criteria for classification or naming of chemical not required.  
 Pseudonym: not hazardous  
 TSCA Inventory: all listed  
 KE No.: listed  
 Concentration: 1 - <3 %  
 acc. CLP (GHS): The criteria for classification are not fulfilled.

**300 µL Liquid RNase (100 mg/mL)**



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Chemical: *di-sodium hydrogencitrate* CAS No.: 6132-05-4  
 Classification: No criteria for classification or naming of chemical not required.  
 Formula:  $C_6H_6Na_2O_7 \cdot 1.5H_2O$   
 TSCA Inventory: listed (CAS 144-33-2)  
 EC No.: 205-623-3  
 KE No.: not listed  
 Concentration: < 10,00 %  
 acc. CLP (GHS): The criteria for classification are not fulfilled.

Chemical: *RNase liquid* CAS No.: 9001-99-4L  
 Classification: No criteria for classification or naming of chemical not required.  
 Formula: Enzyme Comm. No. 3.1.27.5, origin: bovine pancreas (controlled population)  
 Pseudonym: Nuclease, ribo-  
 TSCA Inventory: listed  
 EC No.: 232-646-6  
 RTECS: RF0760000  
 KE No.: KE-30341  
 Concentration: 2,5 - <10 %  
 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%.

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.

#### 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

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### 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

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.

### 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.

### 6.4 Reference to other sections

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## 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): 12  
Water hazard class (DE): 2

#### 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

#### 75 mL A1

Chemical: *chemicals/mixture < 1%*

CAS No.: -

#### 100 mL A2 (with LyseControl)

Chemical: *sodium hydroxide solution*

CAS No.: 1310-73-2d

Chemical: *dodecyl sulfate, sodium salt*

CAS No.: 151-21-3

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: *indicator dye(s)*

CAS No.: -

#### 100 mL A3

Chemical: *guanidine hydrochloride*

CAS No.: 50-01-1

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

DNEL = Derived No-Effect Level (for workers)

PNEC<sub>(fresh water)</sub>: -  
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

#### 30 mL AE

Chemical: *chemicals/mixture < 1%*

CAS No.: -

#### 25 mL AQ

Chemical: *inorganic salts, declaration not necessary*

CAS No.: -

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## 300 µL Liquid RNase (100 mg/mL)

Chemical: *di-sodium hydrogencitrate*

CAS No.: 6132-05-4

Chemical: *RNase liquid*

CAS No.: 9001-99-4L

## 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 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

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.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### 75 mL A1

Appearance: liquid	Colour: colourless	Odor: odorless
pH:	7.5-8.5	
Specific gravity:	1.00 g/cm <sup>3</sup>	

#### 100 mL A2 (with LyseControl)

Appearance: liquid	Colour: blue	Odor: odorless
pH:	13	
Specific gravity:	1.008 g/cm <sup>3</sup>	

#### 100 mL A3

Appearance: liquid	Colour: colourless	Odor: acetic
pH:	4-4.5	
Specific gravity:	1.14 g/cm <sup>3</sup>	

#### 30 mL AE

Appearance: liquid	Colour: colourless	Odor: odorless
pH:	8-9	
Specific gravity:	1.0 g/cm <sup>3</sup>	

#### 25 mL AQ

Appearance: liquid	Colour: colourless	Odor: odorless
pH:	7.5-8	
Specific gravity:	1.01 g/cm <sup>3</sup>	

#### 300 µL Liquid RNase (100 mg/mL)

Appearance: liquid	Colour: colourless	Odor: odorless
pH:	4.5-5.5	

### 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

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## 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

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### 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.

#### 75 mL A1

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

#### 100 mL A2 (with LyseControl)

Chemical: *sodium hydroxide solution* CAS No.: 1310-73-2d  
 TSCA Inventory: listed California Proposition 65 List: not listed  
 Exposure Routes: inhalation, ingestion, skin and/or eye contact  
 Target Organs: Eyes, skin, respiratory system  
 Symptoms: -  
 Japan CSCL/PRTR: not listed, Japan PDSCL: not listed  
 Japan ISHL: listed ≥1,0%/≥1,0% SDS required  
 Korea Exist.Chem.Inventory: KE-31487  
 LD50<sub>orl rat</sub>: [ $< 1\%$ ] > 50 g/kg  
 LD50<sub>orl mus</sub>: [ $< 1\%$ ] > 4 g/kg

Chemical: *dodecyl sulfate, sodium salt* CAS No.: 151-21-3  
 TSCA Inventory: listed California Proposition 65 List: not listed  
 Australia NICNAS: not listed Canada CEPA 1999: DSL yes  
 Japan CSCL/PRTR: PRTR - Class I Designated Chemical Substance, Japan PDSCL: not listed  
 Japan ISHL: not listed  
 South Korea TCCA: not listed  
 Korea Exist.Chem.Inventory: KE-21884  
 LD50<sub>orl rat</sub>: 1288 mg/kg  
 LC50<sub>inh rat</sub>: 3900<sup>th</sup> mg/m<sup>3</sup>  
 LD50<sub>drm rbt</sub>: 10 g/kg

Chemical: *indicator dye(s)* CAS No.: -  
 TSCA Inventory: all listed, <1%

#### 100 mL A3

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



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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.

### 30 mL AE

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

### 25 mL AQ

Chemical: *inorganic salts, declaration not necessary* CAS No.: -  
 TSCA Inventory: all listed  
 Korea Exist.Chem.Inventory: listed

### 300 µL Liquid RNase (100 mg/mL)

Chemical: *di-sodium hydrogencitrate* CAS No.: 6132-05-4  
 TSCA Inventory: listed (CAS 144-33-2)  
 Korea Exist.Chem.Inventory: not listed

Chemical: *RNase liquid* CAS No.: 9001-99-4L  
 TSCA Inventory: listed  
 Japan CSCL/PRTR: not listed  
 Japan ISHL: not listed  
 Korea Exist.Chem.Inventory: KE-30341  
 LD50<sub>intrapertoneal rat</sub>: 392 mg/kg

## SECTION 12: Ecological information

### 12.1 Toxicity

Following information is valid for pure substances.

#### 75 mL A1

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

#### 100 mL A2 (with LyseControl)

Chemical: *sodium hydroxide solution* CAS No.: 1310-73-2d  
 LC50<sub>leuciscus idus/96h</sub>: 35-189 mg/L  
 LC50<sub>fish/96h</sub>: 45.4 mg/L  
 EC50<sub>daphnia/48h</sub>: >100 mg/L  
 Water hazard class (DE): nwg WGK No.: 0142  
 Storage class (VCI): 12-13

Chemical: *dodecyl sulfate, sodium salt* CAS No.: 151-21-3  
 LC50<sub>daphnia magna/48h</sub>: 6.3 mg/L  
 LC50<sub>fish/96h</sub>: 1.31-22.5 mg/L  
 Water hazard class (DE): 2  
 Dispersion coefficient<sub>(octanol-water)</sub>: 1.6  
 Storage class (VCI): 12-13

Chemical: *indicator dye(s)* CAS No.: -  
 Storage class (VCI): 12-13

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**100 mL A3**

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

**30 mL AE**

Chemical:	<i>chemicals/mixture &lt; 1%</i>	CAS No.:	-
Water hazard class (DE):	1		
Storage class (VCI):	12-13		

**25 mL AQ**

Chemical:	<i>inorganic salts, declaration not necessary</i>	CAS No.:	-
Water hazard class (DE):	1		
Storage class (VCI):	12-13		

**300 µL Liquid RNase (100 mg/mL)**

Chemical:	<i>di-sodium hydrogencitrate</i>	CAS No.:	6132-05-4
Water hazard class (DE):	1		
Chemical:	<i>RNase liquid</i>	CAS No.:	9001-99-4L
Water hazard class (DE):	1		
Storage class (VCI):	13		

**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

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## 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.

#### 16.1.2 List of relevant P phrases

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.
P330	Rinse mouth.

### 16.2 Training advice

Regular safety training.

### 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 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  
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  
2017-11 Adaption of ECHA Registration dossier