

Safety Data Sheet

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

REF: 740120.250
Printing date: 15.11.2021

NucleoSpin RNA Plant and Fungi (250)
Date of issue: 08.04.2019

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

1.1 Product identifier

REF 740120.250
Product name NucleoSpin RNA Plant and Fungi (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 200 mL PFB
1 x 150 mL PFL
1 x 20 mL PFR
1 x 150 mL PFW1
3 x 25 mL PFW2
1 x 60 mL RNase-free H₂O

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
Valenciennner 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

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

200 mL PFB

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GHS07

Signal word

WARNING

Hazard identification

Hazard classes/categories

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

150 mL PFL



GHS07

Signal word

WARNING

Hazard identification

Hazard classes/categories

H302
H319
Acute Tox. 4 oral
Eye Irrit. 2

20 mL PFR

Signal word

Do not need labelling as hazardous
-

No hazard class

150 mL PFW1

Signal word

Do not need labelling as hazardous
-

No hazard class

25 mL PFW2

Signal word

Do not need labelling as hazardous
-

No hazard class

60 mL RNase-free H₂O

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).

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200 mL PFB



GHS07

Signal word: WARNING

H302, H315, H319

Harmful if swallowed. Causes skin irritation. Causes serious eye irritation.

P264W, P280sh, P301+312, P330

Wash with water thoroughly after handling. Wear protective gloves/eye protection. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

150 mL PFL



GHS07

Signal word: WARNING

H302, H319

Harmful if swallowed. Causes serious eye irritation.

P264W, P280sh, P301+312, P330

Wash with water thoroughly after handling. Wear protective gloves/eye protection. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

20 mL PFR

Do not need labelling as hazardous
Signal word: -

150 mL PFW1

Do not need labelling as hazardous
Signal word: -

25 mL PFW2

Do not need labelling as hazardous
Signal word: -

60 mL RNase-free H₂O

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

PBT: not applicable

vPvB: not applicable

Other hazards

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SECTION 3: Composition/information on ingredients

3.1 Substances or 3.2 Mixtures

200 mL PFB

Chemical: *lithium chloride* CAS No.: 7447-41-8
Classification: H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2
Formula: LiCl
TSCA Inventory: listed
REACH Reg. No.: 01-2119560574-35-xxxx
EC No.: 231-212-3
RTECS: OJ5950000
KE No.: KE-22552
Concentration: 40 - <70 %
acc. CLP (GHS): H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2

150 mL PFL

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, H319, Eye Irrit. 2

Chemical: *ethylenedinitrilo tetraacetic acid (EDTA)* CAS No.: 60-00-4
Classification: H319, Eye Irrit. 2, H412, Aquatic Chronic 3
Formula: C₁₀H₁₆N₂O₈
Pseudonym: Edetic acid, Glycine, N,N'-1,2-ethanediybis[N-(carboxymethyl)-
TSCA Inventory: listed
REACH Reg. No.: 01-2119486399-18-xxxx
RTECS: AH4025000
KE No.: KE-13648
Concentration: 1 - <10 %
acc. CLP (GHS): The criteria for classification are not fulfilled.

Chemical: *chemicals/mixture < 2%* CAS No.: -
Classification: No criteria for classification or naming of chemical not required.
TSCA Inventory: all listed, <2%
KE No.: listed
Concentration: 1 - <2 %
acc. CLP (GHS): The criteria for classification are not fulfilled.

20 mL PFR

Chemical: *sodium sulfite* CAS No.: 7757-83-7
Classification: No criteria for classification or naming of chemical not required.
Formula: Na₂SO₃, E221
Pseudonym: sulfurous acid, disodium salt
TSCA Inventory: listed
REACH Reg. No.: 01-2119537420-49-xxxx
EC No.: 231-821-4
RTECS: WE2150000
KE No.: KE-31612
Concentration: 10 - <20 %
acc. CLP (GHS): The criteria for classification are not fulfilled.

150 mL PFW1

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Chemical: *lithium chloride* CAS No.: 7447-41-8
Classification: H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2
Formula: LiCl
TSCA Inventory: listed
REACH Reg. No.: 01- 2119560574-35-xxxx
EC No.: 231-212-3
RTECS: QJ5950000
KE No.: 22552
Concentration: 1 - <10 %
acc. CLP (GHS): The criteria for classification are not fulfilled.

25 mL PFW2

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 H₂O

Chemical: *water* CAS No.: 7732-18-5
Classification: No criteria for classification or naming of chemical not required.
Formula: H₂O
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%.

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 immediately. Rinse the affected skin or mucous membrane thoroughly for min. 15 minutes under running water. (If possible) use soap. Avoid neutralisation. Then apply a loose bandage.

4.1.2 After EYE Contact

After contact with the eyes rinse thoroughly under running water with the eyelid wide open for min. 10 minutes with eye washing bottle, eye douche or running water (protect intact eye). Before (if possible) apply eye drops Proxymetacaine 0.5%, if the opening the eyelid convulsion is painful. Further treatment to be carried out by an eye specialist.

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 with activated charcoal supplement should be drunk after it has been ingested. Do not induce vomiting under any circumstances. Do not make any efforts to neutralise it. Contact medical advice for possible consequences. ---

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate medical attention and special treatment needed

After SKIN CONTACT rinse with water for a long time. Apply glucocorticosteroides following inflammatory reactions. After EYE CONTACT rinse immediately with plenty of water for a long time. Eyelid convulsion measures. Name the corrosive chemical. Further treatment must to be carried out by an eye specialist. ---

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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. Spray any vapours released with water. Retent fire water. Use only acid-resistant safety equipment.

For great amount - if necessary - protective breathing apparatus which is independent of the ambient air (isolated equipment), and sealed protective clothing is necessary in the event of a large-scale formation of toxic substances.

5.4 Additional information

Danger for environment **only in the event of a large-scale leakage** or formation of hazardous substances. ---

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Wear suitable protective gloves (see 8.2.2). Wear eye protection. 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

see information in section 5.4 ---

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

200 mL PFB

Chemical: *lithium chloride*

CAS No.: 7447-41-8

DNEL: 73.2_{derm} mg/kg bw/d; 10_{inh} mg/m³

DNEL = Derived No-Effect Level (for workers)

PNEC_(fresh water): 1.2 mg/L
PNEC = Predicted No Effect Concentration

TRGS 900 (DE): 0.2 E mg/m³
E/e respirable

Short-term exposure factor: 1 (I), Y

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

SUVA(CH) MAK value: [als Li][MAK] 0,2 e/[STEL] 0,2 e mg/m³

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150 mL PFL

Chemical: *guanidine hydrochloride*
DNEL: [inh] 3.5 mg/m³
DNEL = Derived No-Effect Level (for workers)

CAS No.: 50-01-1

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: *ethylenedinitrilo tetraacetic acid (EDTA)*

CAS No.: 60-00-4

DNEL: 1.5 mg/m³
DNEL = Derived No-Effect Level (for workers)

PNEC_(fresh water): 2.2 mg/L
PNEC = Predicted No Effect Concentration

Chemical: *chemicals/mixture < 2%*

CAS No.: -

20 mL PFR

Chemical: *sodium sulfite*
DNEL: 298_{inh} mg/m³
DNEL = Derived No-Effect Level (for workers)

CAS No.: 7757-83-7

TRGS 900 (DE): -
E/e respirable

150 mL PFW1

Chemical: *lithium chloride*
DNEL: 73.2_{derm} mg/kg bw/d; 10_{inh} mg/m³
DNEL = Derived No-Effect Level (for workers)

CAS No.: 7447-41-8

PNEC_(fresh water): 1.2 mg/L
PNEC = Predicted No Effect Concentration

TRGS 900 (DE): 0.2 E mg/m³
E/e respirable

Short-term exposure factor: 1 (I), Y
skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: [als Li][MAK] 0,2 e/[STEL] 0,2 e mg/m³

25 mL PFW2

Chemical: *chemicals/mixture < 1%*

CAS No.: -

60 mL RNase-free H₂O

Chemical: *water*

CAS No.: 7732-18-5

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

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.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

200 mL PFB

Appearance: liquid Colour: colourless Odor: odorless

150 mL PFL

Appearance: liquid Colour: colourless Odor: odorless

20 mL PFR

Appearance: liquid Colour: colourless Odor: sulfuric

150 mL PFW1

Appearance: liquid Colour: colourless Odor: odorless

25 mL PFW2

Appearance: liquid Colour: colourless Odor: odorless
pH: 7-8
Specific gravity: 1.00 g/cm³

60 mL RNase-free H₂O

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

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.

200 mL PFB

Chemical: *lithium chloride* CAS No.: 7447-41-8
TSCA Inventory: listed
Korea Exist.Chem.Inventory: KE-22552
LD50_{Orl rat}: 526 mg/kg
Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.

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150 mL PFL

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 Exist.Chem.Inventory: KE-18111
LD50_{orl rat}: 475-907 mg/kg
LC50_{ihl rat}: [4h] 3181-7655 µg/m³
LD50_{drm rbt}: 2000 mg/kg
Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.

Chemical: *ethylenedinitrilo tetraacetic acid (EDTA)* CAS No.: 60-00-4
TSCA Inventory: listed
Japan CSCL/PRTR: PRTR: ≥1,0% class I
Korea Exist.Chem.Inventory: KE-13648
LD50_{orl rat}: 2000-4500 mg/kg

Chemical: *chemicals/mixture < 2%* CAS No.: -
TSCA Inventory: all listed, <2%
Korea Exist.Chem.Inventory: listed

20 mL PFR

Chemical: *sodium sulfite* CAS No.: 7757-83-7
TSCA Inventory: listed
Korea Exist.Chem.Inventory: KE-31612
LD50_{orl rat}: 2610 mg/kg
LC50_{ihl rat}: >5.5_{4h} mg/L

150 mL PFW1

Chemical: *lithium chloride* CAS No.: 7447-41-8
TSCA Inventory: listed
Korea Exist.Chem.Inventory: KE-22552
LD50_{orl rat}: 526 mg/kg

25 mL PFW2

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

60 mL RNase-free H₂O

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.

200 mL PFB

Chemical: *lithium chloride* CAS No.: 7447-41-8
PNEC(fresh water): 1.2 mg/L
PNEC = Predicted No Effect Concentration
LC50_{fish/96h}: 158 mg/L
EC50_{daphnia/48h}: 249 mg/L
EC50_{pseudokirchneriella subcapitata/72h}: IC50/72h: 400 mg/L

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

150 mL PFL

Chemical: *guanidine hydrochloride*

CAS No.: 50-01-1

PNEC(fresh water): -
PNEC = Predicted No Effect Concentration

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

Chemical: *ethylenedinitrilo tetraacetic acid (EDTA)*

CAS No.: 60-00-4

PNEC(fresh water): 2.2 mg/L
PNEC = Predicted No Effect Concentration
LC50_{daphnia magna/48h}: [48h] 140 mg/L
LC50_{fish/96h}: [4d] 41-1592 mg/L
EC50_{daphnia/48h}: [24h] 480-790 mg/L
EC10_{pseudomonas putida/16h}: [72h] 2.77-1000 mg/L
Water hazard class (DE): 2
Dispersion coefficient_(octanol-water): -5.01-0.13
Storage class (VCI): 12-13

Chemical: *chemicals/mixture < 2%*

CAS No.: -

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

20 mL PFR

Chemical: *sodium sulfite*

CAS No.: 7757-83-7

LC50_{fish/96h}: 315_{96h} mg/L
EC10_{pseudomonas putida/16h}: 260_{17h} mg/L
Water hazard class (DE): 1 WGK No.: 0282
Dispersion coefficient_(octanol-water): -4
Storage class (VCI): 12-13

150 mL PFW1

Chemical: *lithium chloride*

CAS No.: 7447-41-8

PNEC(fresh water): 1.2 mg/L
PNEC = Predicted No Effect Concentration
LC50_{fish/96h}: 158 mg/L
EC50_{daphnia/48h}: 249 mg/L
EC50_{pseudokirchneriella subcapitata/72h}: IC50/72h: 400 mg/L
Water hazard class (DE): 1
Storage class (VCI): 12-13

25 mL PFW2

Chemical: *chemicals/mixture < 1%*

CAS No.: -

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

60 mL RNase-free H₂O

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

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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
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

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.

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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, 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
2017-11 Adaption of ECHA Registration dossier