Safety Data Sheet

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

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

1.1 Product identifier

REF 740120.10
Product name NucleoSpin RNA Plant and Fungi (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 10 mL PFB
1 x 8 mL PFL
1 x 5 mL PFR
1 x 8 mL PFW1
1 x 6 mL PFW2
1 x 13 mL H_2O (RNase free)

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

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

10 mL PFB

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CH: Tel.: +41 62 388 55 00 Fax: +41 62 388 55 05 E-mail: sales-ch@mn-net.com
FR: Tel.: +33 388 68 22 68 Fax: +33 388 51 76 88 E-mail: sales-fr@mn-net.com
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GHS07

Signal word: WARNING

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

8 mL PFL

GHS07

Signal word: WARNING

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

5 mL PFR

Do not need labelling as hazardous

Signal word: -

No hazard class

8 mL PFW1

Do not need labelling as hazardous

Signal word: -

No hazard class

6 mL PFW2

Do not need labelling as hazardous

Signal word: -

No hazard class

13 mL H_2O (RNase free)

Do not need labelling as hazardous

Signal word: -

No hazard class

2.2 Label elements

According **CLP directive** inner packages must be only labelled with GHS symbol(s) and product identificator(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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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-ch@mn-net.com
FR: Tel.: +33 388 68 22 68 Fax: +33 388 51 76 88 E-mail: sales-fr@mn-net.com
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10 mL PFB

GHS07

Signal word: WARNING

8 mL PFL

GHS07

Signal word: WARNING

5 mL PFR

Do not need labelling as hazardous
Signal word: -

8 mL PFW1

Do not need labelling as hazardous
Signal word: -

6 mL PFW2

Do not need labelling as hazardous
Signal word: -

13 mL H_2O (RNase free)

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

10 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	

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8 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: CH_6ClN_3
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

Chemical: *ethylendinitrilo tetraacetic acid (EDTA)* CAS No.: 60-00-4
Classification: H319, Eye Irrit. 2, H412, Aquatic Chronic 3
Formula: $C_{10}H_{16}N_2O_8$
Pseudonym: Edetic acid, Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-
TSCA Inventory: listed
REACH Reg. No.: 01-2119486399-18-xxxx
RTECS: AH4025000 MFCD: 0003541
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.

5 mL PFR

Chemical: *sodium sulfite* CAS No.: 7757-83-7
Classification: No criteria for classification or naming of chemical not required.
Formula: Na_2SO_3 , 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.

8 mL PFW1

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: 1 - <10 %
acc. CLP (GHS): The criteria for classification are not fulfilled.

6 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.

13 mL H_2O (RNase free)

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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-ch@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

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%.

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

---

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

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

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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

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

10 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 Effected 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

8 mL PFL

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 Effected 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: *ethylendinitrilo 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 Effected Concentration

Chemical: *chemicals/mixture < 2%* CAS No.: -

5 mL PFR

Chemical: *sodium sulfite* CAS No.: 7757-83-7
DNEL: 298_{inh} mg/m³
DNEL = Derived No-Effect Level (for workers)
TRGS 900 (DE): -
E/e respirable

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DE / international: Tel.: +49 24 21 969-0 Fax: +49 24 21 969-199 E-mail: info@mn-net.com
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8 mL PFW1
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 Effected 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

6 mL PFW2
Chemical: *chemicals/mixture < 1%* CAS No.: -

13 mL H_2O (RNase free)
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
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

10 mL PFB
Appearance: liquid | Colour: colourless | Odor: odorless

8 mL PFL
Appearance: liquid | Colour: colourless | Odor: odorless

5 mL PFR
Appearance: liquid | Colour: colourless | Odor: sulfuric

8 mL PFW1
Appearance: liquid | Colour: colourless | Odor: odorless

6 mL PFW2
Appearance: liquid | Colour: colourless | Odor: odorless
pH: 7-8
Specific gravity: 1.00 g/cm³

13 mL H_2O (RNase free)
Appearance: liquid | Colour: colourless | Odor: odorless
pH: 6-8
Specific gravity: 1.0 g/cm³

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CH: Tel.: +41 62 388 55 00 Fax: +41 62 388 55 05 E-mail: sales-ch@mn-net.com
FR: Tel.: +33 388 68 22 68 Fax: +33 388 51 76 88 E-mail: sales-fr@mn-net.com
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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

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.

10 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.

8 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: *ethylendinitrilo 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

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FR: Tel.: +33 388 68 22 68 Fax: +33 388 51 76 88 E-mail: sales-fr@mn-net.com
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5 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

8 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

6 mL PFW2

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

13 mL H_2O (RNase free)

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.

10 mL PFB

Chemical: *lithium chloride* CAS No.: 7447-41-8
$PNEC_{(fresh\ water)}$: 1.2 mg/L
PNEC = Predicted No Effected 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

8 mL PFL

Chemical: *guanidine hydrochloride* CAS No.: 50-01-1
$PNEC_{(fresh\ water)}$: -
PNEC = Predicted No Effected 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
$EC10_{pseudomonas\ putita/16h}$: [72h] 11.8-33.5 mg/L
Water hazard class (DE): 1 WGK No.: 0788
Storage class (VCI): 12

Chemical: *ethylendinitrilo tetraacetic acid (EDTA)* CAS No.: 60-00-4
$PNEC_{(fresh\ water)}$: 2.2 mg/L
PNEC = Predicted No Effected 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
$EC10_{pseudomonas\ putita/16h}$: [72h] 2.77-1000 mg/L
Water hazard class (DE): 2
$Dispersion\ coefficient_{(octanol-water)}$: -5.01-0.13
Storage class (VCI): 12-13

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Chemical: *chemicals/mixture < 2%* CAS No.: -
Water hazard class (DE): 1
Storage class (VCI): 12-13

5 mL PFR
Chemical: *sodium sulfite* CAS No.: 7757-83-7
$LC50_{fish/96h}$: 315_{96h} mg/L
$EC10_{pseudomonas\ putita/16h}$: 260_{17h} mg/L
Water hazard class (DE): 1 WGK No.: 0282
Dispersion coefficient$_{(octanol-water)}$: -4
Storage class (VCI): 12-13

8 mL PFW1
Chemical: *lithium chloride* CAS No.: 7447-41-8
$PNEC_{(fresh\ water)}$: 1.2 mg/L
PNEC = Predicted No Effected 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

6 mL PFW2
Chemical: *chemicals/mixture < 1%* CAS No.: -
Water hazard class (DE): 1
Storage class (VCI): 12-13

13 mL H_2O (RNase free)
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

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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CH: Tel.: +41 62 388 55 00 Fax: +41 62 388 55 05 E-mail: sales-ch@mn-net.com
FR: Tel.: +33 388 68 22 68 Fax: +33 388 51 76 88 E-mail: sales-fr@mn-net.com
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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
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

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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

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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-ch@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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