

Safety Data Sheet

according to Regulations REACH 1907/2006/EC

REF: 740120.50

NucleoSpin RNA Plant and Fungi (50)

Page: 1/15

Printing date: 15.04.2026

Date of issue: 09.04.2026

Version: 2.20.7.12

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

1.1 Product identifier

REF 740120.50
Product name NucleoSpin RNA Plant and Fungi (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 13 mL H₂O (RNase free)
1 x 30 mL PFL UFI: RJJW-J33M-520W-SAHG
1 x 5 mL PFR
1 x 45 mL PFB UFI: 2DJW-H3QT-J20W-FNCC
1 x 30 mL PFW1
1 x 25 mL PFW2

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
Valenciener Str. 11, 52355 Düren, Germany
Phone: +49 2421 969 0

E-mail: sds@mn-net.com ([msds@mn-net.com](mailto:sds@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, <<https://www.ggiz-erfurt.de>>

You find our current versions of SDS in Internet:

<<http://www.mn-net.com/SDS>>

SECTION 2: Hazard identification

2.0 Classification of the complete product according to Regulation (EC) 1272/2008



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 according to Regulation (EC) 1272/2008

30 mL PFL



GHS07



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Signal word WARNING

Hazard identification	Hazard classes/categories
-----------------------	---------------------------

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

30 mL PFW1

Signal word Do not need labelling as hazardous

No hazard class

45 mL PFB



GHS07

Signal word WARNING

Hazard identification	Hazard classes/categories
-----------------------	---------------------------

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

13 mL H₂O (RNase free)

Signal word Do not need labelling as hazardous

No hazard class

5 mL PFR

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

List of H phrases: see section 16.2

2.2 Label elements according regulation (EC) 1272/2008

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).

30 mL PFL



GHS07



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Signal word: WARNING

30 mL PFW1

Do not need labelling as hazardous
Signal word: -

45 mL PFB



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Signal word: WARNING

13 mL H₂O (RNase free)

Do not need labelling as hazardous
Signal word: -

5 mL PFR

Do not need labelling as hazardous
Signal word: -

25 mL PFW2

Do not need labelling as hazardous
Signal word: -

Label elements of the complete product



GHS07

Signal word: WARNING

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

Possible endocrine disrupting effects

no data available

SECTION 3: Composition / information on ingredients

3.1 Substances or 3.2 Mixtures

30 mL PFL

Substance name: *guanidine hydrochloride*
CAS No.: 50-01-1

Substance rating: H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2

Formula: CH₆ClN₃

Pseudonym (de): Guanidiniumchlorid

REACH Reg. No.: 01-2119977063-35-0005

EC No.: 200-002-3

Indice No.: 607-148-00-0

Concentration: 36 - <50 %

acc. CLP (GHS): H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2



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Substance name: *ethyldinitrilo tetraacetic acid (EDTA)*
 CAS No.: 60-00-4
 Substance rating: H319, Eye Irrit. 2
 Formula: C₁₀H₁₆N₂O₈
 Pseudonym (de): Ethylendiamintetraessigsäure, Titriplex® II
 REACH Reg. No.: 01-2119486399-18-xxxx
 Concentration: 1 - <10 %
 acc. CLP (GHS): The criteria for classification are not fulfilled.

Substance name: *chemicals/mixture until 2%*
 CAS No.: -

Substance rating: No criteria for classification or naming of chemical not required.
 Concentration: 1 - <2 %
 acc. CLP (GHS): The criteria for classification are not fulfilled.

30 mL PFW1

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

45 mL PFB

Substance name: *lithium chloride*
 CAS No.: 7447-41-8
 Substance rating: H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2
 Formula: LiCl
 REACH Reg. No.: 01- 2119560574-35-xxxx
 EC No.: 231-212-3
 Concentration: 40 - <70 %
 acc. CLP (GHS): H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2

13 mL H₂O (RNase free)

Substance name: *water*
 CAS No.: 7732-18-5
 Substance rating: No criteria for classification or naming of chemical not required.
 Formula: H₂O
 REACH Reg. No.: exempt, Annex IV
 EC No.: 231-791-2
 Concentration: 90 - <100 %
 acc. CLP (GHS): The criteria for classification are not fulfilled.

5 mL PFR



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Substance name: *sodium sulfite*
 CAS No.: 7757-83-7

Substance rating: No criteria for classification or naming of chemical not required.
 Formula: Na_2SO_3 , E221
 Pseudonym (de): E221, Schwefligsaures Natrium
 REACH Reg. No.: 01-2119537420-49-xxxx
 EC No.: 231-821-4
 Concentration: 10 - <20 %
 acc. CLP (GHS): The criteria for classification are not fulfilled.

25 mL PFW2

Substance name: *chemicals/mixture until 1%*
 CAS No.: -

Substance rating: No criteria for classification or naming of chemical not required.
 Concentration: 0,1 - <1 %
 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 16.2.

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

There are no known delayed symptoms or effects for this product.

4.3 Indication of any immediate medical attention and special treatment needed

No additionally recommendations. ---

SECTION 5: Firefighting measures

5.1 Extinguishing media

5.1.1 Suitable 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. 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.

5.1.2 Unsuitable extinguishing media

no data available



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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

no data available

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

PBT: not applicable
vPvB: not applicable

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

no data available

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

Safe storage is guaranteed in the original packaging from MACHEREY-NAGEL. Storage class (German chemical industry): see chapter 12.1

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

30 mL PFL

Chemical: *ethyldinitrilo 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 until 2%* CAS No.: -

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

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25 mL PFW2

Chemical: *chemicals/mixture until 1%*

CAS No.: -

30 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 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

45 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

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

13 mL H₂O (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 Skin protection / 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 / Face 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.

8.2.6 Thermal hazards

no data available

8.3 Limitation and monitoring of environmental exposure

Do not release product into environment.



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

30 mL PFL

a) State of aggregation:	liquid
b) Colour:	colourless
c) Odor:	odorless
d) Melting point:	no data available
e) Boiling point:	no data available
f) Flammability:	no data available
g) Explosive limits (lower / upper):	no data available
h) Flash point:	no data available
i) Flashing temperature:	no data available
j) Decomposition temperature:	no data available
k) pH value:	no data available
l) Kinematic viscosity:	no data available
m) Solubility in water:	no data available
n) Dispersion coefficient (K _{o/w}):	no data available
o) Vapour pressure (20°C):	no data available
p) Specific gravity:	no data available
q) Relative vapour density (air=1):	no data available
r) Particle size:	no data available

25 mL PFW2

a) State of aggregation:	liquid
b) Colour:	colourless
c) Odor:	odorless
d) Melting point:	no data available
e) Boiling point:	no data available
f) Flammability:	no data available
g) Explosive limits (lower / upper):	no data available
h) Flash point:	no data available
i) Flashing temperature:	no data available
j) Decomposition temperature:	no data available
k) pH value:	7-8
l) Kinematic viscosity:	no data available
m) Solubility in water:	no data available
n) Dispersion coefficient (K _{o/w}):	no data available
o) Vapour pressure (20°C):	no data available
p) Specific gravity:	1.00 g/cm ³
q) Relative vapour density (air=1):	no data available
r) Particle size:	no data available

30 mL PFW1

a) State of aggregation:	liquid
b) Colour:	colourless
c) Odor:	odorless
d) Melting point:	no data available
e) Boiling point:	no data available
f) Flammability:	no data available
g) Explosive limits (lower / upper):	no data available
h) Flash point:	no data available
i) Flashing temperature:	no data available
j) Decomposition temperature:	no data available
k) pH value:	no data available
l) Kinematic viscosity:	no data available
m) Solubility in water:	no data available
n) Dispersion coefficient (K _{o/w}):	no data available
o) Vapour pressure (20°C):	no data available
p) Specific gravity:	no data available
q) Relative vapour density (air=1):	no data available
r) Particle size:	no data available



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45 mL PFB

a) State of aggregation:	liquid
b) Colour:	colourless
c) Odor:	odorless
d) Melting point:	no data available
e) Boiling point:	no data available
f) Flammability:	no data available
g) Explosive limits (lower / upper):	no data available
h) Flash point:	no data available
i) Flashing temperature:	no data available
j) Decomposition temperature:	no data available
k) pH value:	no data available
l) Kinematic viscosity:	no data available
m) Solubility in water:	no data available
n) Dispersion coefficient (K _{o/w}):	no data available
o) Vapour pressure (20°C):	no data available
p) Specific gravity:	no data available
q) Relative vapour density (air=1):	no data available
r) Particle size:	no data available

5 mL PFR

a) State of aggregation:	liquid
b) Colour:	colourless
c) Odor:	sulfuric
d) Melting point:	no data available
e) Boiling point:	no data available
f) Flammability:	no data available
g) Explosive limits (lower / upper):	no data available
h) Flash point:	no data available
i) Flashing temperature:	no data available
j) Decomposition temperature:	no data available
k) pH value:	no data available
l) Kinematic viscosity:	no data available
m) Solubility in water:	no data available
n) Dispersion coefficient (K _{o/w}):	no data available
o) Vapour pressure (20°C):	no data available
p) Specific gravity:	no data available
q) Relative vapour density (air=1):	no data available
r) Particle size:	no data available

13 mL H₂O (RNase free)

a) State of aggregation:	liquid
b) Colour:	colourless
c) Odor:	odorless
d) Melting point:	no data available
e) Boiling point:	no data available
f) Flammability:	no data available
g) Explosive limits (lower / upper):	no data available
h) Flash point:	no data available
i) Flashing temperature:	no data available
j) Decomposition temperature:	no data available
k) pH value:	6-8
l) Kinematic viscosity:	no data available
m) Solubility in water:	no data available
n) Dispersion coefficient (K _{o/w}):	no data available
o) Vapour pressure (20°C):	no data available
p) Specific gravity:	1.0 g/cm ³
q) Relative vapour density (air=1):	no data available
r) Particle size:	no data available

9.2 Other information



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9.2.1 Information on physical hazard classes
no data available

9.2.2 Other safety-related parameters
No data is available for the other parameters for the mixtures, since 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**
no data available
- 10.5 Incompatible materials**
no additional data available
- 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 the hazard classes according regulation (EC) 1272/2008
Following information is valid for pure substances. Quantitative data on the toxicity of this product are not available.

30 mL PFL
 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 until 2%* CAS No.: -
 TSCA Inventory: all listed, <2%
 Korea Exist.Chem.Inventory: listed

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 inh rat : 3181-7655 µg/m³/4H
 Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.

25 mL PFW2
 Chemical: *chemicals/mixture until 1%* CAS No.: -
 TSCA Inventory: all listed, <1%
 Korea Exist.Chem.Inventory: listed



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30 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

45 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.

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 mg/L/4H

13 mL H₂O (RNase free)

Chemical: *water* CAS No.: 7732-18-5
 TSCA Inventory: listed
 Korea Exist.Chem.Inventory: KE-35400
 LD50 orl rat : > 90000 mg/kg

11.2 Other hazards

Possible endocrine disrupting effects

no data available

Other information

no additional data available

SECTION 12: Ecological information

12.1 Toxicity

Following information is valid for pure substances.

30 mL PFL

Substance name: *ethylendinitrilo tetraacetic acid (EDTA)* CAS-Nr.: 60-00-4
 PNEC (fresh water) : 2.2 mg/L
 PNEC = Predicted No Effected Concentration = concentration at which no effect on the environment is expected
 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
 Storage class (VCI): 12-13

Substance name: *chemicals/mixture until 2%* CAS-Nr.: -
 Water hazard class (DE): 1
 Storage class (VCI): 12-13

Substance name: *guanidine hydrochloride* CAS-Nr.: 50-01-1
 PNEC (fresh water) : -
 PNEC = Predicted No Effected Concentration = concentration at which no effect on the environment is expected
 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



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25 mL PFW2

Substance name: *chemicals/mixture until 1%* CAS-Nr.: -
 Water hazard class (DE): 1
 Storage class (VCI): 12-13

30 mL PFW1

Substance name: *lithium chloride* CAS-Nr.: 7447-41-8
 PNEC (fresh water): 1.2 mg/L
 PNEC = Predicted No Effect Concentration = concentration at which no effect on the environment is expected
 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

45 mL PFB

Substance name: *lithium chloride* CAS-Nr.: 7447-41-8
 PNEC (fresh water): 1.2 mg/L
 PNEC = Predicted No Effect Concentration = concentration at which no effect on the environment is expected
 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

5 mL PFR

Substance name: *sodium sulfite* CAS-Nr.: 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
 Storage class (VCI): 12-13

13 mL H₂O (RNase free)

Substance name: *water* CAS-Nr.: 7732-18-5

12.2 Persistence and degradability

12.3 Bioaccumulative potential

30 mL PFL

Substance name: *ethylendinitrilo tetraacetic acid (EDTA)* CAS-Nr.: 60-00-4
 Dispersion coefficient (K_{o/w}): -5,01-0,13

5 mL PFR

Substance name: *sodium sulfite* CAS-Nr.: 7757-83-7
 Dispersion coefficient (K_{o/w}): -4

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

no data available

12.7 Other adverse effects

no additional data available



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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 Carriage in bulk by sea in accordance with IMO instruments

Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Dangerous Substances Protection Act (DE: Chemikaliengesetz - ChemG), Aug 2013, Stand: Okt 2020
 Ordinance on protection against dangerous substances (E: Gefahrstoffverordnung - GefStoffV), Nov 2010, Stand: Mrz 2017
 TRGS 201, Classification and labeling of activities involving hazardous substances, Feb 2017
 TRGS 220, National aspects when preparing safety data sheets, Jan 2017
 TRGS 400, Risk assessment for activities involving hazardous substances, Jul 2017
 BekGS 408, Application of the GefStoffV and the TRGS with the entry into force of the CLP regulation, December 2009, status: Jan 2012
 MN leaflet/instructions for use, also at www.mn-net.com
 If necessary, observe other country-specific regulations.

15.2 Chemical safety assessment

no data available

SECTION 16: Other information

16.1 Changes compared to the last version

Between versions 2.20.7.12 and 2.2.2.2 following changes were applied: - 18 product component data corrected - 5 composition data corrected - 10 substance data corrected

16.2 List of H and P phrases

16.2.1 List of relevant H phrases

H	Between versions 2.20.7.12 and 2.2.2.2 following changes were applied: - 18 product component data corrected - 5 composition data corrected - 10 substance data corrected
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

16.2.2 List of relevant P phrases

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 Sources of key data

KÜHN, BIRETT, Leaflets on hazardous materials, 2021
 Directive 1999/92/EG Minimum requirements to improve the safety and health protection of workers at risk from potentially explosive atmospheres
 SUVA .CH, limit values in the air at work 2009, revised on 01/2009
 Regulation 790/2009/EU, adaptation of Regulation 1272/2008/EU to technical and scientific progress (1st ATP)
 Regulation 453/2010/EU, adaptation of the REACH regulation 1907/2006/EG
 Regulation 487/2013/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (4th ATP)
 Regulation 1221/2015/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (7th ATP)
 Regulation 776/2017/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (10th ATP)



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Regulation 669/2018/EU, adaptation of Regulation 1272/2008/EC to technical and scientific progress (11th ATP)
 Regulation 1480/2018/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (13th ATP)
 Regulation 521/2019/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (12th ATP)
 TRGS 900, German rules of technology on limit values in the air at work, as of 03/2019
 Regulation 217/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (14th ATP)
 Regulation 878/2020/EU, adaptation of Annex II of the REACH regulation 1907/2006/EG
 Regulation 1182/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (15th ATP)
 Regulation 643/2021/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (16th ATP)
 Regulation 849/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (17th ATP)
 Regulation 692/2022/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (18th ATP)

revisions/updates

Reason for revision: 2014-02 Corrected structure of the sections according to Regulation 453/2010/EU, if necessary
 2014-04 adjustment according Regulation 487/2013/EU
 2016-03 adjustment according Regulation 1221/2015/EU

 2017-11 adjustment according the ECHA registration dossier
 2022-11 adjustment according Regulation 878/2020/EU

16.5 Further information

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16.6 Legend / Abbreviations

- acc: according
- ADR: Convention concerning the International Carriage of Dangerous Goods by Road
- Act: acute
- BAT: biological workplace tolerance value
- CAO: Cargo Aircraft Only
- Carc: carcinogen
- CAS: Chemical Abstracts Service
- CLP: Classification, Labelling and Packaging regulation
- CMR: carcinogen, mutagen, reproduction toxic
- Corr: corrosive
- COD: chemical oxygen demand
- CSCL: Chemical Substance Control Law (Jp)
- Dam: damage
- DNEL: Derived No-Effect Level (for workers)
- derm: dermal
- dog: dog
- EC10: Concentration causing a toxic effect in 10% of the test organisms
- EC: European Community
- EC-Nr: Substance number of the EC substance inventory
- EmS: Guide to accident management measures on ships
- EU: European Union
- fish: fish (not specified)
- GHS: Global Harmonized System of Classification and Labeling of Chemicals
- gpg: guinea pig
- ICAO: International Civil Aviation Organization
- ihl: inhaled
- IMDG: International Maritime Dangerous Goods Code
- intrav: intravenous
- ipt: intraperitoneal
- ISHL: Industrial Safety and Health Law (Jp)
- LC50: letale concentration 50%
- LD50: letale dosis 50%
- leuciscus idus: fisch, ide, orfe
- MAK: maximum workplace concentration
- Met: Metall
- mus: mouse
- Muta: mutagen
- NIOSH: National Institute for Occupational Safety and Health (US)



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NRD: Non-rapidly degradable
 onchorhynchus mykiss: fish, rainbow trout
 orl: oral
 OSHA: Occupational Safety and Health Administration
 PAX: transport on passenger planes allowed
 PBT: persistent, bioaccumulating, toxic substance
 pH: pH value
 pimephales promelas: fish, fathead minnow
 PNEC: Predicted No Effect Concentration
 PROC 15: Process category 'for laboratory use'
 PRTR: Law for PRTR and Promotion of Chemical Management (Jp)
 PVC: polyvinyl chloride
 quail: bird, quail
 rat: rat
 rbt: rabbit
 RD: rapidly degradable
 RE: repeated
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
 REF: item number, reference number
 Reg.No.: rRegistration number
 Repr: harmful to reproduction
 Resp: respiratory
 RIP: REACH Implementations Projects
 scu: sub cutan
 SDS: safety data sheet
 Sens: sensitisation
 STEL: short term exposure limit
 STOT: Specific Target Organ Toxicity
 SVHC: Substance of Very High Concern
 t/a: tons per year
 TCCA: Toxic Chemicals Control Act (S. Korea)
 Tox: toxic
 TSCA: The Toxic Substances Control Act (US)
 TWA: time weighted average
 TRGS: technical regulations (DE)
 vPvB: very persistent, very bioaccumulating substance

16.7 Training advice

Regular safety training. 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.

