

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

NucleoTrap (100) Page: 1/10

Printing date: 12.05.2021 Date of issue: 23.01.2020

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

1.1 **Product identifier**

REF 740584

Product name NucleoTrap (100)

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 NE 1 x 60 mL NT1 1 x 100 mL NT2 1 x 25 mL NT3

1 x 1000 µL NucleoTrap® Suspension

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





GHS03

GHS07

Signal word **DANGER**

Hazard identification Hazard classes/categories

H272 Ox. Liq. 2 H302 Acute Tox. 4 oral

Classification of the substance or mixture 2.1

13 mL NE

Do not need labelling as hazardous

Signal word

No hazard class

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60 mL NT1



Signal word **DANGER**

Hazard identification Hazard classes/categories

H272 Ox. Liq. 2 H302 Acute Tox. 4 oral

100 mL NT2





Signal word **DANGER**

Hazard identification Hazard classes/categories

H272 Ox. Liq. 2

H302 Acute Tox. 4 oral

25 mL NT3

Do not need labelling as hazardous

Signal word

No hazard class

1000 µL NucleoTrap® Suspension

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).

Oxidizing mixtures with signal word: DANGER and H272 must not be labelled with H and P phrases until 125 mL.

13 mL NE

Do not need labelling as hazardous Signal word: -

60 mL NT1





Signal word: DANGER

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100 mL NT2





Signal word: DANGER

25 mL NT3

Do not need labelling as hazardous Signal word: -

1000 µL NucleoTrap® Suspension

Do not need labelling as hazardous Signal word: -

2.3 Other hazards

Possible hazards from physicochemical properties

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

It is not possible to declare fine dust (< 12 µm) as dangerous or not. We recommend not to inhale product dust. Dust may cause damage of the inhalatory system if inhaled over a longer period .---

SECTION 3: Composition/information on ingredients

3.1 Substances or 3.2 Mixtures

13 mL NE

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 NT1

CAS No.: 7601-89-0 Chemical: sodium perchlorate

Classification: H271, Ox. Sol. 1, H302, Acute Tox. 4 oral

Formula: NaClO₄ TSCA Inventory: listed

REACH Reg. No.: 01-2119540521-50-xxxx

EC No.: 231-511-9 Indice No.: 017-010-00-6 MFCD:

SC9800000 RTECS: KE-31569 KE No.: Concentration: 40 - <60 %

acc. CLP (GHS): H272, Ox. Liq. 2, H302, Acute Tox. 4 oral

100 mL NT2

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CAS No.: 7601-89-0

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Chemical: sodium perchlorate

Classification: H271, Ox. Sol. 1, H302, Acute Tox. 4 oral

Formula: NaClO₄
TSCA Inventory: listed

REACH Reg. No.: 01-2119540521-50-xxxx

EC No.: 231-511-9 Indice No.: 017-010-00-6

RTECS: SC9800000 MFCD: -

KE No.: KE-31569 Concentration: 40 - <60 %

acc. CLP (GHS): H272, Ox. Liq. 2, H302, Acute Tox. 4 oral

25 mL NT3

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

Classification: No criteria for classification or naming of chemical not required.

TSCA Inventory: all listed, <1% listed
Concentration: 0.1 - <1 %

acc. CLP (GHS): The criteria for classification are not fulfilled.

1000 µL NucleoTrap® Suspension

Chemical: silica CAS No.: 7631-86-9

Classification: No criteria for classification or naming of chemical not required.

Formula: SiO₂
Pseudonym: silicon dioxide, Diatomite, precipitated amorphous silica

TSCA Inventory: listed

REACH Reg. No.: 01-2119379499-16-0166

EC No.: 231-545-4

RTECS: VV7315000 MFCD: 00011232

KE No.: KE-31032 Concentration: 10 - <20 %

acc. CLP (GHS): The criteria for classification are not fulfilled.

Chemical: water CAS No.: 7732-18-5

Classification: No criteria for classification or naming of chemical not required.

REACH Reg. No.: exempt, Annex IV EC No.: 231-791-2 RTECS: ZC0110000 KE No.: KE-35400 Concentration: 70 - <90 %

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

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

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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.

Additional information 5.4

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

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):

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

13 mL NE

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

60 mL NT1

sodium perchlorate CAS No.: 7601-89-0 Chemical:

[derm] 2.16 mg/kg bw/day; [inh] 0.28 mg/m³

Level (for workers) TRGS 900 (DE):

E/e respirable NIOSH: not listed

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[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

100 mL NT2

Chemical: sodium perchlorate CAS No.: 7601-89-0

DNEL: [derm] 2.16 mg/kg bw/day; [inh] 0.28 mg/m³ DNEL = Derived No-Effect Level (for workers)

TRGS 900 (DE):

E/e respirable 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

25 mL NT3

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

1000 µL NucleoTrap® Suspension

CAS No.: 7631-86-9 Chemical:

DNEL: [inh] 4 mg/m³ DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water):
PNEC = Predicted No Effected Concentration TRGS 900 (DE): 1,25 A / 4 E mg/m³

E/e respirable

Short-term exposure factor: Y

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

SUVA(CH) MAK value:

NIOSH:

Occupational Carcinogen List yes; [TWA] 6 mg/m³ erage to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: [TWA] 20 mppcf / 80 mg/m³

Chemical: 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

Use for regularly working with dry powders a dust mask or a dust protection filter, class P3. No additional recommendations.

8.2.2

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 Eve protection

Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection.

Skin protection 8.2.4

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

13 mL NE

Colour: colourless Odor: odorless Appearance: liquid

pH: 8-9 Specific gravity: 1.0 g/cm³

60 mL NT1

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> Colour: colourless Odor: odorless Appearance: liquid

6-7 pH: Specific gravity: 1.45 g/cm³

Oxidising properties: low potential and quantity

100 mL NT2

Odor: odorless Appearance: liquid Colour: colourless

Specific gravity: 1.46 a/cm³

low potential and quantity Oxidising properties:

25 mL NT3

Colour: colourless Odor: odorless Appearance: liquid

Specific gravity: 1.00 g/cm³

1000 µL NucleoTrap® Suspension

Appearance: liquid Colour: colourless Odor: odorless

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

No further data available.

Conditions to avoid 10.4

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.

13 mL NE

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

TSCA Inventory: all listed, <1% Korea Exist.Chem.Inventory: listed

60 mL NT1

Chemical: sodium perchlorate CAS No.: 7601-89-0

California Proposition 65 List: not listed TSCA Inventory: 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 KE-31569 Korea Exist.Chem.Inventory: LD50_{orl rat}: 2100 mg/kg

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> LD50_{ipr mus}: 551 mg/kg

Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.

100 mL NT2

Chemical: sodium perchlorate CAS No.: 7601-89-0

TSCA Inventory: listed California Proposition 65 List: not listed Australia NICNAS: not listed Canada CEPA 1999: DSL Yes

not listed, Japan PDSCL: not listed Japan CSCL/PRTR:

Japan ISHL: not listed South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-31569 LD50_{orl rat}: 2100 mg/kg LD50ipr mus 551 mg/kg

Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.

25 mL NT3

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

TSCA Inventory: all listed, <1%

Korea Exist.Chem.Inventory: listed

1000 µL NucleoTrap® Suspension

Chemical: CAS No.: 7631-86-9

TSCA Inventory: California Proposition 65 List: not listed

Exposure Routes: inhalation, skin and/or eye contact Target Organs: Eyes, respiratory system Symptoms: irritation eyes, pneumoconiosis

Australia NICNAS: not listed Canada CEPA 1999: DSL yes

Japan CSCL/PRTR: not listed, Japan PDSCL: not listed

Japan ISHL: listed ≥0,1%/≥0,1%, Article 57-2 (SDS required)

South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-31032 LD50_{orl rat}: 5000 mg/kg

LC50_{ihl rat}: [4h] 140-58 800 mg/m³ 2000-5000 mg/kg LD50_{drm rbt}:

TRGS 905 (DE): R_F C

Chemical: 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.

13 mL NE

chemicals/mixture < 1% CAS No .: -

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

60 mL NT1

CAS No.: 7601-89-0 Chemical: sodium perchlorate

Water hazard class (DE): WGK No.: 0382

12 Storage class (VCI):

100 mL NT2

Chemical: CAS No.: 7601-89-0 sodium perchlorate

WGK No.: 0382 Water hazard class (DE): 1

12 Storage class (VCI):

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25 mL NT3

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

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

1000 µL NucleoTrap® Suspension

CAS No.: 7631-86-9 Chemical:

PNEC (fresh water):
PNEC = Predicted No Effected Concentration

LC50_{fish/96h}: [4d] 1033-1289 mg/L 512; [4d] 2600 mg/L EC50_{daphnia/48h}:

EC50_{chlorella vulgaris/5d}: Water hazard class (DE): [4d] 218 mg/L WGK No.: 0849 nwg

Storage class (VCI): 13

Chemical: CAS No.: 7732-18-5 water

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

3211 14.2 UN proper shipping name: Perchlorates, inorganic, aqueous solution, n.o.s. (sodium perchlorate) 14.1 UN number:

14.3 Class: 14.4 Packing group:

Road transport

Classification code:

Tunnel restriction code: Ε Limited Quantity 5 I F 1

Excepted Quantity:

Air transport

PAX: 551 max. weight PAX: 2,5 L CAO: 555 max. weight CAO: 30 L

Maritime transport

F-H S-O Storage category: FmS:

Maritime pollutant (5.2.1.6): (Limited Quantity (LQ) until 5 L|kg per inner package)

14.5 **Environmental hazards**

none, contains only small quantities of hazardous substances

14.6 Special precautions for user

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

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

H272 May intensify fire; oxidizer. H302 Harmful if swallowed.

16.1.2 List of relevant P phrases

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P264W Wash with water thoroughly after handling P280sh Wear protective gloves/eye protection.

IF SWALLOWED. Call a POISON CENTER/doctor if you feel unwell. P301+312

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

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

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Revisions/Updates

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