

Safety Data Sheet

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

REF: 740587

NucleoTraPCR (100)

Page: 1/9

Printing date: 15.11.2021

Date of issue: 23.01.2020

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

1.1 Product identifier

REF

740587

Product name

NucleoTraPCR (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 100 mL NT2

1 x 25 mL NT3

1 x 1000 µL NucleoTrap® CR 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

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



GHS03



GHS07

Signal word

DANGER

Hazard identification

Hazard classes/categories

H272

Ox. Liq. 2

H302

Acute Tox. 4 oral

2.1 Classification of the substance or mixture

13 mL NE

Do not need labelling as hazardous

Signal word

-

No hazard class

Safety Data Sheet

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

REF: 740587

NucleoTraPCR (100)

Page: 2/9

Printing date: 15.11.2021

Date of issue: 23.01.2020

100 mL NT2



GHS03 GHS07

Signal word

DANGER

Hazard identification

Hazard classes/categories

H272

Ox. Liq. 2

H302

Acute Tox. 4 oral

25 mL NT3

Signal word

Do not need labelling as hazardous

-

No hazard class

1000 µL NucleoTrap® CR Suspension

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).

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: -

100 mL NT2



GHS03 GHS07

Signal word: DANGER

25 mL NT3

Do not need labelling as hazardous

Signal word: -

1000 µL NucleoTrap® CR Suspension

Do not need labelling as hazardous

Signal word: -

2.3 Other hazards

Possible hazards from physicochemical properties

Safety Data Sheet

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

REF: 740587

NucleoTraPCR (100)

Page: 3/9

Printing date: 15.11.2021

Date of issue: 23.01.2020

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

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.

100 mL NT2

Chemical: sodium perchlorate

CAS No.: 7601-89-0

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%

KE No.:

listed

Concentration:

0.1 - <1 %

acc. CLP (GHS):

The criteria for classification are not fulfilled.

1000 µL NucleoTrap® CR 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

MFCD:

00011232

RTECS:

VV7315000

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.

Formula:

H₂O

TSCA Inventory:

listed

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.

Safety Data Sheet

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

REF: 740587

NucleoTraPCR (100)

Page: 4/9

Printing date: 15.11.2021

Date of issue: 23.01.2020

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

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.

Safety Data Sheet

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

REF: 740587

NucleoTraPCR (100)

Page: 5/9

Printing date: 15.11.2021

Date of issue: 23.01.2020

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): 1

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.: -

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® CR Suspension

Chemical: silica

CAS No.: 7631-86-9

DNEL: [inh] 4 mg/m³

DNEL = Derived No-Effect Level (for workers)

PNEC(fresh water):

-

PNEC = Predicted No Effect 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: 4 e mg/m³

NIOSH: Occupational Carcinogen List yes; [TWA] 6 mg/m³

[TWA] Time-weighted average 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: 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

Use for regularly working with dry powders a dust mask or a dust protection filter, class P3. 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.

www.mn-net.com

Safety Data Sheet

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

REF: 740587

NucleoTraPCR (100)

Page: 6/9

Printing date: 15.11.2021

Date of issue: 23.01.2020

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

13 mL NE

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

100 mL NT2

Appearance: liquid	Colour: colourless	Odor: odorless
pH: 6-7		
Specific gravity: 1.46 g/cm ³		
Oxidising properties: low potential and quantity		

25 mL NT3

Appearance: liquid	Colour: colourless	Odor: odorless
pH: 7-8		
Specific gravity: 1.00 g/cm ³		

1000 µL NucleoTrap® CR 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.

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.

13 mL NE

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

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

www.mn-net.com

Safety Data Sheet

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

REF: 740587

NucleoTraPCR (100)

Page: 7/9

Printing date: 15.11.2021

Date of issue: 23.01.2020

Japan ISHL: not listed
 South Korea TCCA: not listed
 Korea Exist.Chem.Inventory: KE-31569
 LD50_{orl rat}: 2100 mg/kg
 LD50_{ipr mus}: 551 mg/kg
 Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.

25 mL NT3

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

1000 µL NucleoTrap® CR Suspension

Chemical: silica CAS No.: 7631-86-9
 TSCA Inventory: listed 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
 LD50_{drm rbt}: 2000-5000 mg/kg

TRGS 905 (DE): R_F C

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.

13 mL NE

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

100 mL NT2

Chemical: sodium perchlorate CAS No.: 7601-89-0
 Water hazard class (DE): 1 WGK No.: 0382
 Storage class (VCI): 12

25 mL NT3

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

1000 µL NucleoTrap® CR Suspension

Chemical: silica CAS No.: 7631-86-9
 PNEC(fresh water): -
 PNEC = Predicted No Effect Concentration
 LC50_{fish/96h}: [4d] 1033-1289 mg/L
 EC50_{daphnia/48h}: 512; [4d] 2600 mg/L
 EC50_{chlorella vulgaris/5d}: [4d] 218 mg/L
 Water hazard class (DE): nwg WGK No.: 0849
 Storage class (VCI): 13

www.mn-net.com

Safety Data Sheet

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

REF: 740587

NucleoTraPCR (100)

Page: 8/9

Printing date: 15.11.2021

Date of issue: 23.01.2020

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 UN number:	3211	14.2 UN proper shipping name:	Perchlorates, inorganic, aqueous solution, n.o.s. (sodium perchlorate)
14.3 Class:	5.1	14.4 Packing group:	III
<i>Road transport</i>			
Classification code:	O1		
Limited Quantity:	5 L	Tunnel restriction code:	E
Excepted Quantity:	E 1		
<i>Air transport</i>			
PAX:	551	max. weight PAX:	2,5 L
CAO:	555	max. weight CAO:	30 L
<i>Maritime transport</i>			
EmS:	F-H, S-Q	Storage category:	B
Maritime pollutant (5.2.1.6):		P*	(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

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 ---

Safety Data Sheet

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

REF: 740587

NucleoTraPCR (100)

Page: 9/9

Printing date: 15.11.2021

Date of issue: 23.01.2020

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.
P301+312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330 Rinse mouth.

16.2 Training advice

Regular safety training.

16.3 Recommended restriction on use

Only for professional user.

An individual package of this product or test kit has a moderate hazardous potential.

16.4 Further information

MACHEREY-NAGEL GmbH & Co. KG provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

MACHEREY-NAGEL GmbH & Co. KG makes NO REPRESENTATIONS or WARRANTIES, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly MACHEREY-NAGEL GmbH & Co. KG will not be responsible for damages resulting from use of or reliance upon this information. See terms and conditions at the end of our price lists for additional information.

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