

# Safety Data Sheet

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

NucleoTraPCR (100) Page: 1/9

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 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.

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. 99089 Erfurt tel. +49 361 730 730 DE: Gemeinsames Giftinformationszentrum (GGIZ)

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

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## CHEREY-NAGE



# **Safety Data Sheet**

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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® CR 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

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





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

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> 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 all listed,  ${<}1\%$ 

TSCA Inventory: KF 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

NaClO<sub>4</sub> Formula: TSCA Inventory: listed

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

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

RTECS: SC9800000 MFCD:

KF No . KF-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: CAS No.: 7631-86-9

Classification: No criteria for classification or naming of chemical not required. Formula: SiO<sub>2</sub>

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: CAS No.: 7732-18-5

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

Formula: H<sub>2</sub> O TSCA Inventory: listed

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

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

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#### 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 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.

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## CHEREY-NAGE



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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):

721 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

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

TRGS 900 (DE):

E/e respirable

not listed NIOSH:

[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

CAS No.: 7631-86-9 Chemical:

DNFI [inh] 4 mg/m<sup>3</sup> DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water):
PNEC = Predicted No Effected Concentration TRGS 900 (DE):

Short-term exposure factor:

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

SUVA(CH) MAK value: 4 e mg/m<sup>3</sup>

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/m<sup>3</sup>

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

#### 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

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

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

8.2.4 Skin protection

Not necessary.

Personal hygiene 8.2.5

Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.

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## **MACHEREY-NAGE**



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## **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: Specific gravity: 1.0 g/cm<sup>3</sup>

100 mL NT2

Appearance: liquid Colour: colourless Odor: odorless

pH: Specific gravity: 1.46 g/cm3

low potential and quantity Oxidising properties:

25 mL NT3

Appearance: liquid Colour: colourless Odor: odorless

7-8 pH:

1.00 g/cm<sup>3</sup> Specific gravity:

1000 µL NucleoTrap® CR Suspension

Odor: odorless Appearance: liquid Colour: colourless

#### 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:

Korea Exist.Chem.Inventory: listed

### 100 mL NT2

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

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

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

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> Japan ISHL: not listed South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-31569 LD50<sub>orl rat</sub>: 2100 mg/kg LD50<sub>ipr mus</sub> 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: CAS No.: 7631-86-9 silica

TSCA Inventory: listed California Proposition 65 List: not listed

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

Australia NICNAS: Canada CEPA 1999: DSL yes not listed

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

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

South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-31032 LD50<sub>orl rat</sub>:

5000 mg/kg [4h] 140-58 800 mg/m³ LC50<sub>ihl rat</sub>: LD50<sub>drm rbt</sub>: 2000-5000 mg/kg

TRGS 905 (DE): R<sub>F</sub> C

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

TSCA Inventory: listed Korea Exist.Chem.Inventory: KE-35400

**SECTION 12: Ecological information** 

12.1

Following information is valid for pure substances.

13 mL NE

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

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

100 mL NT2

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

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

12 Storage class (VCI):

25 mL NT3

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 Effected Concentration

LC50<sub>fish/96h</sub>: [4d] 1033-1289 mg/L EC50<sub>daphnia/48h</sub>: 512; [4d] 2600 mg/L EC50<sub>chlorella vulgaris/5d</sub>: Water hazard class (DE): [4d] 218 mg/L WGK No.: 0849 nwg

Storage class (VCI): 13

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> 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**

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

F

14.3 Class: 5.1 14.4 Packing group:

Road transport Classification code:

01

551

Tunnel restriction code:

Limited Quantity

5 I **Excepted Quantity:** 

max. weight PAX: 2,5 L

PAX: CAO:

Air transport

555 max. weight CAO: 30 L

Maritime transport FmS:

F-H. S-Q Storage category:

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

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 ---

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## **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.

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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, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress Regulation 669/2018/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress Regulation 1480/2018/EU, 4<sup>th</sup> 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

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