

# Safety Data Sheet

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

REF: 925016

NANOCONTROL Multistandard Metals 2

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Printing date: 02.06.2020

Date of issue: 18.06.2018

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

### 1.1 Product identifier

REF 925016  
Product name NANOCONTROL Multistandard Metals 2

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.

2 x 30 mL NANOCONTROL Metals 2  
1 x 15 mL NANOCONTROL 100+

### 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  
Neumann-Neander-Str. 6-8, 52355 Dueren, GERMANY  
Tel.: +49 2421 969 0

E-mail: [sds@mn-net.com](mailto:sds@mn-net.com) ([msds@mn-net.com](mailto:msds@mn-net.com))

### 1.4 Emergency telephone number

Information not necessary.

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

-

### 2.1 Classification of the substance or mixture

#### 30 mL NANOCONTROL Metals 2

Signal word Do not need labelling as hazardous  
-

No hazard class

#### 15 mL NANOCONTROL 100+

Signal word Do not need labelling as hazardous  
-

No hazard class

### 2.2 Label elements

#### 30 mL NANOCONTROL Metals 2

Do not need labelling as hazardous  
Signal word: -

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## 15 mL NANOCONTROL 100+

Do not need labelling as hazardous  
Signal word: -

### 2.3 Other hazards

#### Possible hazards from physicochemical properties

According to our current status of knowledge and experience we state, that this product does not contain any substances, which - in accordance with EC regulations 1272/2008/EC, 1907/2006/EC and German Regulations for Hazardous goods - have to be declared as dangerous goods, either because of their applied concentration or because of their total amount in anyone kit. An individual package has considerably less hazardous potential. ---

#### Information pertaining to particular risks to human and possible symptoms

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#### Information pertaining to particular risks to the environment

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#### Other hazards

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances or 3.2 Mixtures

#### 30 mL NANOCONTROL Metals 2

Chemical: *test chemical(s) (ppm)*  
Classification: No criteria for classification or naming of chemical not required.  
TSCA Inventory: all <0.1%  
Concentration: 0.1 - <1 %  
acc. CLP (GHS): The criteria for classification are not fulfilled.

CAS No.: -

#### 15 mL NANOCONTROL 100+

Chemical: *sulfuric acid (diluted < 5 %)*  
Classification: H315, Skin Irrit. 2, H319, Eye Irrit. 2  
Formula: H<sub>2</sub>SO<sub>4</sub>•H<sub>2</sub>O  
TSCA Inventory: listed  
REACH Reg. No.: 01-2119458838-20-xxxx  
EC No.: 231-639-5  
RTECS: WS5600000  
KE No.: KE-32570  
Concentration: 0.1 - <1 %  
acc. CLP (GHS): The criteria for classification are not fulfilled.

CAS No.: 7664-93-9d

Indice No.: 016-020-00-8

Chemical: *test chemical(s) (ppm)*  
Classification: No criteria for classification or naming of chemical not required.  
TSCA Inventory: all <0.1%  
Concentration: 0.01 - <0.1 %  
acc. CLP (GHS): The criteria for classification are not fulfilled.

CAS No.: -

### 3.3 Remarks

When not listed, mixtures are added with water [CAS No. 7732-18-5] to 100%.

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately.

#### 4.1.1 After SKIN Contact

Not necessary.

#### 4.1.2 After EYE Contact

Not necessary.

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- 4.1.3 After INHALATION of vapours**  
Not necessary. ---
- 4.1.4 After ORAL Intake**  
Not necessary. ---
- 4.2 Most important symptoms and effects, both acute and delayed**  
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- 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**  
None.
- 5.3 Advice for firefighters**  
No, for listed product. Product package burns like paper or plastic.
- 5.4 Additional information**  
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## SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures**  
Do not breathe vapours. Not necessary.
- 6.2 Environmental precautions**  
not necessary
- 6.3 Methods and material for containment and cleaning up**  
Clean working area with water. Flush used water into drains.
- 6.4 Reference to other sections**  
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## 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): 8B  
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

**30 mL NANOCONTROL Metals 2**

Chemical: *test chemical(s) (ppm)*

CAS No.: -

**15 mL NANOCONTROL 100+**

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Chemical: *sulfuric acid* CAS No.: 7664-93-9d  
 DNEL: 50 µg/m<sup>3</sup>  
DNEL = Derived No-Effect Level (for workers)  
 PNEC<sub>(fresh water)</sub>: 2.5 µg/L  
PNEC = Predicted No Effect Concentration  
 TRGS 900 (DE): 0.1 E mg/m<sup>3</sup>  
E/e respirable  
 Short-term exposure factor: 1 (I)  
skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded  
 SUVA(CH) MAK value: 0,1 e mg/m<sup>3</sup>  
 NIOSH: NTP Report on Carcinogens (RoC) List Yes (Known to be a human carcinogen); TWA 1 mg/m<sup>3</sup>  
[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period  
 OSHA: [TWA] 1 mg/m<sup>3</sup>  
 Chemical: *test chemical(s) (ppm)* CAS No.: -

## 8.2 Exposure controls

Not necessary. Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities.

### 8.2.1 Respiratory protection

Not necessary.

### 8.2.2 Hand protection

Not necessary.

### 8.2.3 Eye protection

Not necessary.

### 8.2.4 Skin protection

Not necessary.

### 8.2.5 Personal hygiene

Information not necessary.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### 30 mL NANOCONTROL Metals 2

Appearance: liquid Colour: colourless Odor: odorless

#### 15 mL NANOCONTROL 100+

Appearance: liquid Colour: colourless Odor: odorless  
 pH: 3-5  
 Specific gravity: 1,0 g/cm<sup>3</sup>

### 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

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None

### 10.2 Chemical stability

No known instability.

### 10.3 Possibility of hazardous reactions

None.

### 10.4 Conditions to avoid

Not known. Observe labeled storage temperature. ---

### 10.5 Incompatible materials

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Not known.

## 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.

#### 30 mL NANOCONTROL Metals 2

Chemical: *test chemical(s) (ppm)*  
TSCA Inventory: all <0.1%

CAS No.: -

#### 15 mL NANOCONTROL 100+

Chemical: *sulfuric acid*  
TSCA Inventory: listed  
ACGIH: 1 ppm  
Exposure Routes: inhalation, ingestion, skin and/or eye contact  
Target Organs: Eyes, skin, respiratory system, teeth  
Symptoms: irritation eyes, skin, nose  
Australia NICNAS: not listed  
Japan CSCL/PRTR: not listed, Japan PDSCL: Deleterious Substance  
Japan ISHL: listed ≥1,0%/≥1,0%, Article 57-2 (SDS required)  
South Korea TCCA: Accident Precaution Chemical Yes  
Korea Exist.Chem.Inventory: KE-32570  
LD50<sub>orl rat</sub>: 2140 mg/kg  
LC50<sub>ihl rat</sub>: [8h] 600/ [4h] 850 mg/m<sup>3</sup>  
TRGS 905 (DE): R<sub>F</sub> C

CAS No.: 7664-93-9d

California Proposition 65 List: not listed

Canada CEPA 1999: DSL Yes

Chemical: *test chemical(s) (ppm)*  
TSCA Inventory: all <0.1%

CAS No.: -

## SECTION 12: Ecological information

### 12.1 Toxicity

Following information is valid for pure substances.

#### 30 mL NANOCONTROL Metals 2

Chemical: *test chemical(s) (ppm)*  
Storage class (VCI): 12

CAS No.: -

#### 15 mL NANOCONTROL 100+

Chemical: *sulfuric acid*  
PNEC (fresh water): 2.5 µg/L  
PNEC = Predicted No Effect Concentration  
LC50<sub>fish/96h</sub>: [NOEC, 65d] 25 µg/L  
EC50<sub>daphnia/48h</sub>: 100 mg/L  
EC10<sub>pseudomonas putida/16h</sub>: [72h] 100 mg/L  
Water hazard class (DE): 1 WGK No.: 0182  
Storage class (VCI): 8 B

CAS No.: 7664-93-9d

Chemical: *test chemical(s) (ppm)*  
Storage class (VCI): 12

CAS No.: -

### 12.2 Persistence and degradability

not necessary

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- 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

Not necessary.

- 13.1 Waste treatment methods**  
GENERAL: Empty solids into municipal waste, empty liquids diluted into drains.

## SECTION 14: Transport information

14.1 - 14.4 Not necessary

- 14.5 Environmental hazards**  
none
- 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  
MN Leaflet/User manual, also see [www.mn-net.com](http://www.mn-net.com)  
Look for your country-specific regulations.
- 15.2 Chemical safety assessment**  
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## SECTION 16: Other information

- 16.1 List of H and P phrases**
- 16.1.1 List of relevant H phrases
- 16.1.2 List of relevant P phrases
- 16.2 Training advice**  
Regular safety training.
- 16.3 Recommended restriction on use**  
None
- 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, 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