

Safety Data Sheet

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

REF: 925011

NANOCONTROL Multistandard Sewage Outf. 1

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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 925011
Product name NANOCONTROL Multistandard Sewage Outf. 1

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 Sewage outflow 1
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 (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 Sewage outflow 1

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 Sewage outflow 1

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

Information pertaining to particular risks to the environment

Other hazards

SECTION 3: Composition/information on ingredients

3.1 Substances or 3.2 Mixtures

30 mL NANOCONTROL Sewage outflow 1

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: H₂SO₄•H₂O
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%.

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**

- 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**

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**

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 Sewage outflow 1
Chemical: *test chemical(s) (ppm)*

CAS No.: -

15 mL NANOCONTROL 100+

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

Appearance: liquid Colour: colourless Odor: odorless

15 mL NANOCONTROL 100+

Appearance: liquid Colour: colourless Odor: odorless
 pH: 3-5
 Specific gravity: $1,0 \text{ g}/\text{cm}^3$

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

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 Sewage outflow 1

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_{orl rat}: 2140 mg/kg
LC50_{ihl rat}: [8h] 600/ [4h] 850 mg/m³
TRGS 905 (DE): R_F 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 Sewage outflow 1

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_{fish/96h}: [NOEC, 65d] 25 µg/L
EC50_{daphnia/48h}: 100 mg/L
EC10_{pseudomonas putita/16h}: [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
Look for your country-specific regulations.
- 15.2 Chemical safety assessment**

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, 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

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