

# Safety Data Sheet

according to Regulations REACH 1907/2006/EC

REF: 918932  
Printing date: 03.08.2026

NANOCOLOR Distilled water, 1L  
Date of issue: 14.11.2022

Page: 1/8  
Version: 2.2.2.2

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

### 1.1 Product identifier

REF 918932  
Product name NANOCOLOR Distilled water, 1L  
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 1 L distilled water

### 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  
Phone: +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 in Internet: [<https://www.mn-net.com/SDS>](https://www.mn-net.com/SDS)

## SECTION 2: Hazard identification

### 2.0 Classification of the complete product according to Regulation (EC) 1272/2008

| Hazard identification | Hazard classes/categories |
|-----------------------|---------------------------|
|-----------------------|---------------------------|

### 2.1 Classification of the substance or mixture according to Regulation (EC) 1272/2008

1 L distilled water  
Signal word Do not need labelling as hazardous  
No hazard class

List of H phrases: see section 16.2

### 2.2 Label elements according regulation (EC) 1272/2008

1 L distilled water  
Do not need labelling as hazardous  
Signal word: -

#### Label elements of the complete product

Signal word: -



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Page: 2/8

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## 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

PBT: not applicable

vPvB: not applicable

### Possible endocrine disrupting effects

no data available

## SECTION 3: Composition / information on ingredients

### 3.1 Substances or 3.2 Mixtures

#### 1 L distilled water

Substance name: *water*

CAS No.: 7732-18-5

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

Formula: H<sub>2</sub>O

REACH Reg. No.: exempt, Annex IV

EC No.: 231-791-2

Concentration: 90 - <100 %

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 16.2.

## 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.

#### 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

There are no known delayed symptoms or effects for this product.

### 4.3 Indication of any immediate medical attention and special treatment needed

No additionally recommendations. ---

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NANOCOLOR Distilled water, 1L

Date of issue: 14.11.2022

Page: 3/8

Version: 2.2.2.2

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### 5.1.1 Suitable 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. 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.

#### 5.1.2 Unsuitable extinguishing media

no data available

### 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

no data available

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Not necessary.

### 6.2 Environmental precautions

PBT: not applicable

vPvB: not applicable

### 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

no data available

## 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

Safe storage is guaranteed in the original packaging from MACHEREY-NAGEL. Storage class (German chemical industry): see chapter 12.1

Storage class (VCI):

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

1 L distilled water

Chemical: water

CAS No.: 7732-18-5

### 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



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REF: 918932

NANOCOLOR Distilled water, 1L

Page: 4/8

Printing date: 03.08.2026

Date of issue: 14.11.2022

Version: 2.2.2.2

- Not necessary.
- 8.2.2 Skin protection / Hand protection**  
Not necessary.
- 8.2.3 Eye / Face Protection**  
Not necessary.
- 8.2.4 Skin protection**  
Not necessary.
- 8.2.5 Personal hygiene**  
Information not necessary.
- 8.2.6 Thermal hazards**  
no data available
- 8.3 Limitation and monitoring of environmental exposure**  
Information not necessary.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### 1 L distilled water

- |                                          |                        |
|------------------------------------------|------------------------|
| a) State of aggregation:                 | liquid                 |
| b) Colour:                               | colourless             |
| c) Odor:                                 | odorless               |
| d) Melting point:                        | no data available      |
| e) Boiling point:                        | no data available      |
| f) Flammability:                         | no data available      |
| g) Explosive limits (lower / upper):     | no data available      |
| h) Flash point:                          | no data available      |
| i) Flashing temperature:                 | no data available      |
| j) Decomposition temperature:            | no data available      |
| k) pH value:                             | 6-8                    |
| l) Kinematic viscosity:                  | no data available      |
| m) Solubility in water:                  | no data available      |
| n) Dispersion coefficient ( $K_{o/w}$ ): | no data available      |
| o) Vapour pressure (20°C):               | no data available      |
| p) Specific gravity:                     | 1,00 g/cm <sup>3</sup> |
| q) Relative vapour density (air=1):      | no data available      |
| r) Particle size:                        | no data available      |

### 9.2 Other information

#### 9.2.1 Information on physical hazard classes

no data available

#### 9.2.2 Other safety-related parameters

No data is available for the other parameters for the mixtures, since no registration and no chemical safety report is required.

☐ ☐

no data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None

### 10.2 Chemical stability

no known instability.

### 10.3 Possibility of hazardous reactions

None.



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# Safety Data Sheet

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REF: 918932

NANOCOLOR Distilled water, 1L

Page: 5/8

Printing date: 03.08.2026

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Version: 2.2.2.2

## 10.4 Conditions to avoid

Observe the storage temperature printed on it. Not known.

## 10.5 Incompatible materials

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 the hazard classes according regulation (EC) 1272/2008

Following information is valid for pure substances. Quantitative data on the toxicity of this product are not available.

#### 1 L distilled water

Chemical: water

CAS No.: 7732-18-5

TSCA Inventory: listed

Korea Exist.Chem.Inventory: KE-35400

LD50 orl rat : > 90000 mg/kg

### 11.2 Other hazards

#### Possible endocrine disrupting effects

no data available

#### Other information

no additional data available

## SECTION 12: Ecological information

### 12.1 Toxicity

Following information is valid for pure substances.

#### 1 L distilled water

Substance name: water

CAS-Nr.: 7732-18-5

### 12.2 Persistence and degradability

### 12.3 Bioaccumulative potential

### 12.4 Mobility in soil

### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

no data available

### 12.7 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.

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|                           |                               |                  |
|---------------------------|-------------------------------|------------------|
| REF: 918932               | NANOCOLOR Distilled water, 1L | Page: 6/8        |
| Printing date: 03.08.2026 | Date of issue: 14.11.2022     | Version: 2.2.2.2 |

## 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 Carriage in bulk by sea in accordance with IMO instruments

Not applicable.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Dangerous Substances Protection Act (DE: Chemikaliengesetz - ChemG), Aug 2013, Stand: Okt 2020  
Ordinance on protection against dangerous substances (E: Gefahrstoffverordnung - GefStoffV), Nov 2010, Stand: Mrz 2017  
MN leaflet/instructions for use, also at [www.mn-net.com](http://www.mn-net.com)  
If necessary, observe other country-specific regulations.

### 15.2 Chemical safety assessment

no data available

## SECTION 16: Other information

### 16.1 Changes compared to the last version

in preparation

### 16.2 List of H and P phrases

#### 16.2.1 List of relevant H phrases

H in preparation

#### 16.2.2 List of relevant P phrases

### 16.3 Recommended restriction on use

None

### 16.4 Sources of key data

KÜHN, BIRETT, Leaflets on hazardous materials, 2021  
Directive 1999/92/EG Minimum requirements to improve the safety and health protection of workers at risk from potentially explosive atmospheres  
SUVA .CH, limit values in the air at work 2009, revised on 01/2009  
Regulation 790/2009/EU, adaptation of Regulation 1272/2008/EU to technical and scientific progress (1st ATP)  
Regulation 453/2010/EU, adaptation of the REACH regulation 1907/2006/EG  
Regulation 487/2013/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (4th ATP)  
Regulation 1221/2015/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (7th ATP)  
Regulation 776/2017/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (10th ATP)  
  
Regulation 669/2018/EU, adaptation of Regulation 1272/2008/EC to technical and scientific progressText (11th ATP)  
Regulation 1480/2018/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (13th ATP)  
Regulation 521/2019/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (12th ATP)  
TRGS 900, German rules of technology on limit values in the air at work, as of 03/2019  
Regulation 217/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (14th ATP)  
Regulation 878/2020/EU, adaptation of Annex II of the REACH regulation 1907/2006/EG  
Regulation 1182/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (15th ATP)  
Regulation 643/2021/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (16th ATP)  
Regulation 849/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (17th ATP)  
Regulation 692/2022/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (18th ATP)

### revisions/updates

Reason for revision: 2014-02 Corrected structure of the sections according to Regulation 453/2010/EU, if necessary  
2014-04 adjustment according Regulation 487/2013/EU  
2016-03 adjustment according Regulation 1221/2015/EU

2017-11 adjustment according the ECHA registration dossier  
2022-11 adjustment according Regulation 878/2020/EU



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|                           |                               |                  |
|---------------------------|-------------------------------|------------------|
| REF: 918932               | NANOCOLOR Distilled water, 1L | Page: 7/8        |
| Printing date: 03.08.2026 | Date of issue: 14.11.2022     | Version: 2.2.2.2 |

## 16.5 Further information

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## 16.6 Legend / Abbreviations

|                       |                                                                             |
|-----------------------|-----------------------------------------------------------------------------|
| acc:                  | according                                                                   |
| ADR:                  | Convention concerning the International Carriage of Dangerous Goods by Road |
| Act:                  | acute                                                                       |
| BAT:                  | biological workplace tolerance value                                        |
| CAO:                  | Cargo Aircraft Only                                                         |
| Carc:                 | carcinogen                                                                  |
| CAS:                  | Chemical Abstracts Service                                                  |
| CLP:                  | Classification, Labelling and Packaging regulation                          |
| CMR:                  | carcinogen, mutagen, reproduction toxic                                     |
| Corr:                 | corrosive                                                                   |
| COD:                  | chemical oxygen demand                                                      |
| CSCL:                 | Chemical Substance Control Law (Jp)                                         |
| Dam:                  | damage                                                                      |
| DNEL:                 | Derived No-Effect Level (for workers)                                       |
| derm:                 | dermal                                                                      |
| dog:                  | dog                                                                         |
| EC10:                 | Concentration causing a toxic effect in 10% of the test organisms           |
| EC:                   | European Community                                                          |
| EC-Nr:                | Substance number of the EC substance inventory                              |
| EmS:                  | Guide to accident management measures on ships                              |
| EU:                   | European Union                                                              |
| fish:                 | fish (not specified)                                                        |
| GHS:                  | Global Harmonized System of Classification and Labeling of Chemicals        |
| gpg:                  | guinea pig                                                                  |
| ICAO:                 | International Civil Aviation Organization                                   |
| ihl:                  | inhaled                                                                     |
| IMDG:                 | International Maritime Dangerous Goods Code                                 |
| intrav:               | intravenous                                                                 |
| ipt:                  | intraperitoneal                                                             |
| ISHL:                 | Industrial Safety and Health Law (Jp)                                       |
| LC50:                 | lethal concentration 50%                                                    |
| LD50:                 | lethal dose 50%                                                             |
| leuciscus idus:       | fish, ide, orfe                                                             |
| MAK:                  | maximum workplace concentration                                             |
| Met:                  | Metall                                                                      |
| mus:                  | mouse                                                                       |
| Muta:                 | mutagen                                                                     |
| NIOSH:                | National Institute for Occupational Safety and Health (US)                  |
| NRD:                  | Non-rapidly degradable                                                      |
| onchorhynchus mykiss: | fish, rainbow trout                                                         |
| orl:                  | oral                                                                        |
| OSHA:                 | Occupational Safety and Health Administration                               |
| PAX:                  | transport on passenger planes allowed                                       |
| PBT:                  | persistent, bioaccumulating, toxic substance                                |
| pH:                   | pH value                                                                    |
| pimephales promelas:  | fish, fathead minnow                                                        |
| PNEC:                 | Predicted No Effect Concentration                                           |
| PROC 15:              | Process category 'for laboratory use'                                       |
| PRTR:                 | Law for PRTR and Promotion of Chemical Management (Jp)                      |
| PVC:                  | polyvinyl chloride                                                          |
| quail:                | bird, quail                                                                 |
| rat:                  | rat                                                                         |
| rbt:                  | rabbit                                                                      |
| RD:                   | rapidly degradable                                                          |
| RE:                   | repeated                                                                    |
| REACH:                | Registration, Evaluation, Authorisation and Restriction of Chemicals        |
| REF:                  | item number, reference number                                               |
| Reg.No.:              | rRegistration number                                                        |



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REF: 918932

NANOCOLOR Distilled water, 1L

Page: 8/8

Printing date: 03.08.2026

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Repr: harmful to reproduction  
 Resp: respiratory  
 RIP: REACH Implementations Projects  
 scu: sub cutan  
 SDS: safety data sheet  
 Sens: sensitisation  
 STEL: short term exposure limit  
 STOT: Specific Target Organ Toxicity  
 SVHC: Substance of Very High Concern  
 t/a: tons per year  
 TCCA: Toxic Chemicals Control Act (S. Korea)  
 Tox: toxic  
 TSCA: The Toxic Substances Control Act (US)  
 TWA: time weighted average  
 TRGS: technical regulations (DE)  
 vPvB: very persistent, very bioaccumulating substance

## 16.7 Training advice

Regular safety training. Multiple safety training of staffs about danger and protection by using hazards in working area. Additionally training and introduction of staffs for using these products.