

# Safety Data Sheet

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

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

### 1.1 Product identifier

REF 985045  
 Product name NANOCOLOR Potassium 50

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.

20 x 2 mL Potassium 50 (tubes)  
 1 x 5 g Potassium 50 R2

### 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: 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/MSDS>

## SECTION 2: Hazard identification

### 2.0 Classification of the complete product



GHS07

Signal word WARNING

Hazard identification	Hazard classes/categories
H302	Acute Tox. 4
H315	Skin Irrit. 2
H319	Augenreizung Kat. 2

### 2.1 Classification of the substance or mixture

**2 mL Potassium 50 (tubes)**

Signal word do not need labelling as hazardous  
 -

No hazard class

**5 g Potassium 50 R2**

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GHS07

Signal word

WARNING

Hazard identification	Hazard classes/categories
H302	Acute Tox. 4
H315	Skin Irrit. 2
H319	Augenreizung Kat. 2

## 2.2 Label elements

According **CLP (GHS)** inner packages must be only labelled with symbol(s) and product identifier (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).

### 2 mL Potassium 50 (tubes)

do not need labelling as hazardous  
Signal word: -

### 5 g Potassium 50 R2



GHS07

Signal word: WARNING

## 2.3 Other hazards

### Possible Hazards from physicochemical Properties

In the case of pH values are less than 5 or higher than 9 then it is irritant.

### 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

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### Other Hazards

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## SECTION 3: Composition/Information on Ingredients

### 3.1 Substances or 3.2 Mixtures

#### 2 mL Potassium 50 (tubes)

Chemical: ethylendinitrilo tetraacetic acid, di Na-salt (EDTA-Na)  
 Concentration: 1 - <10 %  
 Formula: C<sub>10</sub> H<sub>14</sub> N<sub>2</sub> Na<sub>2</sub> O<sub>8</sub> •2 H<sub>2</sub> O  
 EC No.: 205-358-3  
 RTECS: AH4410000; AH4375000  
 TSCA Inventory: listed (CAS 139-33-3)  
 acc. CLP (GHS): not necessary

CAS No.: 6381-92-6

MFCD: 00150037

#### 5 g Potassium 50 R2

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Chemical:	<i>sodium tetraphenylborate</i>	CAS No.:	143-66-8
Concentration:	14 - <35 %	Correlation factor:	x 0.032 (= %B)
Formula:	C <sub>24</sub> H <sub>20</sub> BNa		
EC No.:	205-605-5		
RTECS:	ED3362500	MFCD:	00011494
TSCA Inventory:	listed		
KE No.:	KE-31629		
acc. CLP (GHS):	H302, H315, H319		

## 3.3 Remarks

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

Avoid inhalation of dust. ---

### 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

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## 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.

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## 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. Use a safety bottle when shaking test tubes.

### 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): 3

### 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

#### 2 mL Potassium 50 (tubes)

Chemical: *ethylendinitrilo tetraacetic acid, di Na-salt (EDTA-Na)*

CAS No.: 6381-92-6

#### 5 g Potassium 50 R2

Chemical: *sodium tetraphenylborate*

CAS No.: 143-66-8

### 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

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.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### 2 mL Potassium 50 (tubes)

Appearance: liquid

Colour: colourless

Odor: odorless

pH:

10,5-11,5

Specific gravity:

1,0 g/cm<sup>3</sup>

Solubility in water:

0-100 %

#### 5 g Potassium 50 R2

Appearance: powder (solid)

Colour: colourless

Odor: odorless

pH:

6-8

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## 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

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

Observe labeled storage temperature. ---

### 10.5 Incompatible materials

Not necessary.

### 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.

#### 2 mL Potassium 50 (tubes)

Chemical:	<i>ethylendinitrilo tetraacetic acid, di Na-salt (EDTA-Na)</i>	CAS No.: 6381-92-6
TSCA Inventory:	listed (CAS 139-33-3)	
LD50 <sub>orl rat</sub> :	>2000 mg/kg	

#### 5 g Potassium 50 R2

Chemical:	<i>sodium tetraphenylborate</i>	CAS No.: 143-66-8
TSCA Inventory:	listed	
Japan CSCL/PRTR:	PRTR: >1,0% B class I	
Korea Exist.Chem.Inventory:	KE-31629	
LD50 <sub>orl rat</sub> :	288 mg/kg	
Acute Effects:	Cause after oral intake, impairments of health when ingested in small quantities.	

## SECTION 12: Ecological information

### 12.1 Toxicity

Following information is valid for pure substances.

#### 2 mL Potassium 50 (tubes)

Chemical:	<i>ethylendinitrilo tetraacetic acid, di Na-salt (EDTA-Na)</i>	CAS No.: 6381-92-6
Water hazard class (DE):	2	
Storage class (VCI):	12-13	

#### 5 g Potassium 50 R2

Chemical:	<i>sodium tetraphenylborate</i>	CAS No.: 143-66-8
Water hazard class (DE):	3	
Storage class (VCI):	12-13	

### 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

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**

## SECTION 14: Transport information

14.1 - 14.4: No dangerous goods according the transport regulations

- 14.5 Environmental hazards**  
not necessary, 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
- 15.2 Chemical safety assessment**  
not necessary for these small amounts ---

## SECTION 16: Other Information

- 16.1 List of H and P phrases**
- 16.1.1 List of relevant H phrases**  
H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.
- 16.1.2 List of relevant P phrases**  
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.

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## 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 790/2009/EU adaptation of CLP regulation 1272/2008/EU to technical and scientific progress  
 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  
 TRGS 900, German engineering rules governing limits in air at work, updated September 2016  
 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