MACHEREY-NAGEL



Safety Data Sheet

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

REF: 985045	NANOCOLOR Potassium 50	Page: 1/7
Printing date: 01.10.2019	Date of issue: 21.06.2018	

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): A registration number for the subs the substance or its use is exclude	see SECTION 3.1/3.2 or ance(s) does not require registration or d from registration.
		20 x 2 mL Potassium 50 (R0) 1 x 5 g Potassium 50 R2
1.2	Relevant identified uses of the	e substance or mixture and uses advised against
	Relevant identified uses	5
	Product for analytical use. Exposure Scenario Classific The exposure scenario is in Uses advised against not described	ation according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0 tegrated into sections 1-16.
1.3	Details of the supplier of the s Manufactured by: MACHEREY-NAGEL GmbH & Co. Neumann-Neander-Str. 6-8, 52355	KG Dueren, GERMANY
	Tel.: +49 2421 969 0	E-mail: sds@mn-net.com (msds@mn-net.com)
1.4	Emergency telephone numbe Outside Germany (DE): Call your re DE: Gemeinsames Giftinformations	gional Poisons Information Service or call local Life Saving Service.
	You find our current versions of SDS (22 lar	guages) in Internet: http://www.mn-net.com/SDS
SECT	ION 2: Hazard identificatio	n
2.0	Classification of the complete	product
		· ∧

	GHS07
Signal word	WARNING
Hazard identification	Hazard classes/categories
H302 H315 H319	Acute Tox. 4 oral Skin Irrit. 2 Eve Irrit. 2

2.1 Classification of the substance or mixture

2 mL Potassium 50 (R0)

Signal word

Do not need labelling as hazardous

No hazard class

5 g Potassium 50 R2

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

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	GHS07
Signal word	WARNING
Hazard identification	Hazard classes/categories
H302	Acute Tox. 4 oral
H315	Skin Irrit. 2
H319	Eye Irrit. 2

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). Inner packages up to 10 mL need max. 2 symbols (Annex I - 1.5.2.4.1 / 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 (R0)

Do not need labelling as hazardous Signal word: -

5 g Potassium 50 R2



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

Other hazards

SECTION 3: Composition/information on ingredients

3.1 Substances or 3.2 Mixtures

2 mL Potassium 50 (R0) Chemical: ethylendinitrilo tetraacetic acid, di Na-salt (EDTA-Na) CAS No.: 6381-92-6						
Classification:	H332, Acute Tox. 4 inh., H373, ST	OT RE 2				
Formula:	C ₁₀ H ₁₄ N ₂ Na ₂ O ₈ •2 H ₂ O					
TSCA Inventory:	listed (CAS 139-33-3)					
EC No.:	205-358-3					
RTECS:	AH4410000; AH4375000	MFCD:	00150037			
Concentration:	1 - <5 %					
acc. CLP (GHS):	The criteria for classification are not fulfilled	d.				

5 g Potassium 50 R2

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

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Printing date: 01.10.2019		Date of issu	e: 21.06.2018			
	Cher	nical: sodium t	etraphenylborate		CAS No.: 143-66-8	
				H315, Skin Irrit. 2, H319, Ey		
	Form		C ₂₄ H ₂₀ BNa			
		,	sted			
	EC N RTE KE N	CS: E	205-605-5 ED3362500 KE-31629	MFCD:	00011494	
	Cond	centration: 1	4 - <35 %	Correlation fact ording to CLP Regulation 2008/127	or: x 0.032 (= %B) /2/EC Annex VI, 1.1.3.2 Note 1)	
	acc.	CLP (GHS):	1302, Acute Tox. 4 oral,	H315, Skin Irrit. 2, H319, Ey	ve Irrit. 2	
3.3	Remarks					
	When not liste	ed, mixtures are ad	ded with water [CAS No	7732-18-5] to 100%.		
	List of H and F	^o phrases: see sec	tion 16.1			
SEC	FION 4: First a	id measures	5			
4.1	Description of	first aid meas	sures			

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).

After INHALATION of vapours 4.1.3

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

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.

Additional information

5.4

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

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

REF: 985045 NANOCOLOR Potassium 50 Page: 4/7 Printing date: 01.10.2019 Date of issue: 21 06 2018 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. 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 (R0) Chemical: ethylendinitrilo tetraacetic acid, di Na-salt (EDTA-Na) CAS No : 6381-92-6 DNFI · [inh] 1.5 mg/m³ DNEL = Derived No-Effect Level (for workers) PNEC(fresh water) : 2.2 mg/L PNEC = Predicted No Effected Concentration 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. **Respiratory protection** 8.2.1 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. Skin protection 8.2.4 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 (R0) Appearance: liquid Colour: colourless Odor: odorless 10,5-11,5 pH: Specific gravity: 1,0 g/cm³

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Solubility in water:

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0-100 %

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9.2 O Da Re SECTION 10.1 R 10.2 C No 10.3 P No 10.4 C	elevant Properties of Substance	Group	6.2018 Odor: odorless use no registration and no chemical safety re	eport is required.
SECTION 10.1 R 10.2 C 10.3 P No 10.4 C	Appearance: powder (solid) pH: other information ata for the other parameters of the elevant Properties of Substance N 10: Stability and rea eactivity o further data available.	6-8 mixtures are not available, beca Group		eport is required.
SECTION 10.1 R 10.2 C 10.3 P No 10.4 C	ata for the other parameters of the elevant Properties of Substance N 10: Stability and rea eactivity o further data available.	Group	use no registration and no chemical safety re	eport is required.
SECTION 10.1 R 10.2 C 10.3 P No 10.4 C	elevant Properties of Substance N 10: Stability and rea eactivity o further data available.	Group	use no registration and no chemical safety re	port is required.
10.1 R nc 10.2 C Nc 10.3 P Nc 10.4 C	eactivity o further data available.	ctivity		
10.1 R nc 10.2 C Nc 10.3 P Nc 10.4 C	eactivity o further data available.	2		
10.2 C No 10.3 P No 10.4 C				
No 10.3 P No 10.4 C	hemical stability			
No 10.4 C	o known instability.			
	ossibility of hazardous rea	actions		
	onditions to avoid bserve labeled storage temperature	e		
	compatible materials void contact with strong acids or all	kalines.		
In	azardous decomposition the original package all parts/all re- eriod under recommended condition	eagents are safety and separate	d stored. Decompositions are not observed d	uring the expiration
SECTION	N 11: Toxicological in	formation		
	nformation on toxicologica		data on the toxicity of this product are not ava	ailable.

2 mL Potassium 50 (R0)

Chemical:	ethylendinitrilo tetraacetic acid, di Na-salt (EDTA-Na)	CAS No.: 6381-92-6
TSCA Inventory:	listed (CAS 139-33-3)	
LD50 _{orl rat} :	2800 mg/kg	

g Potassium 50 R2					
Chemical:	sodium tetraphenylborate	CAS No.: 143-66-8			
TSCA Inventory:	listed				
Japan CSCL/PRTR:	PRTR: >1,0% B class I				
Korea Exist.Chem.Inv	/entory: KE-31629				
LD50 _{orl rat} :	288 mg/kg				
Acute Effects: Cause	after oral intake, impairments of health wh	en ingested in small quantities.			

SECTION 12: Ecological information

12.1 Toxicity

2

5

Following information is valid for pure substances.

? m	L Potassium 50 (R0)		
	Chemical: ethylendinitrilo	tetraacetic acid, di Na-salt (EDTA-Na)	CAS No.: 6381-92-6
	PNEC(fresh water):	2.2 mg/L	
	PNEC = Predicted No Effected Concentration		
	LC50 _{fish/96h} :	[4d] 41-1592 mg/L	
	EC50daphnia/48h :	140 mg/L	
	IC50scenedesmus quadricauda/72h	[72h] 2.77-1000 mg/L	
	EC10 _{pseudomonas putita/16h}	[EC10, 30h] 500 mg/L	
	Water hazard class (DE):	2	
	Dispersion coefficient(octanol-water):	-4.3	
	Storage class (VCI):	12-13	

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	5 g Potassium 50 R2 Chemical: sodiu Water hazard class (DE): Storage class (VCI):	m tetraphenylborate 3 12-13	CAS No.: 143-66-8		
12.2	Persistence and degradabi not necessary	ity			
12.3	Bioaccumulative potential not necessary				
12.4	Mobility in soil not necessary				
12.5	Results of PBT and vPvB a no data available	ssessment			
12.6	Other adverse effects no additional data available				
SECI	ΓΙΟΝ 13: Disposal consid	erations			
	Please observe local regulations for colle nformation on laboratory waste disposal	ction and disposal of hazardous waste and contact waste dis (waste code number 16 05 06).	sposal company, where you will obtain		
13.1	Waste treatment methods				
SECT	FION 14: Transport inforn	nation			
1	4.1 - 14.4: No dangerous goods accord	ng the transport regulations			
14.5	Environmental hazards none, contains only small quantities	of hazardous substances			
14.6	Special precautions for use not necessary	r			
14.7	Transport in bulk according to Annex II of MARPOL and the IBC Code not applicable				
SECI	FION 15: Regulatory infor	mation			
15.1	- · · · · · · · · · · · · · · · · · · ·	nental regulations/legislation specific for the mazardous substances (Chemicals Act / Chemikaliengese			

ici governing protection from nazardous substances (Chemicals Act / Chemikaliengesetz d 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 ---

SECTION 16: Other information

16.1 List of H and P phrases

16.1.1	List of releva	List of relevant H phrases		
	H302	Harmful if swallowed.		
	H315	Causes skin irritation		

H319 Causes serious eye irritation.





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

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16.1.2	List of relevant F P264W P280sh P301+312 P330	 P phrases Wash with water thoroughly after handling. Wear protective gloves/eye protection. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. 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. MACHEREY-NAGEL GmbH & Co. KG makes NO REPRESENTATIONS or WARRANTIES, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly MACHEREY-NAGEL GmbH & Co. KG will not be responsible for damages resulting from use of or reliance upon this information. See terms and conditions at the end of our price lists for additional information. 			
16.5	Regulation 453/2010/8 Regulation 487/2013/8 Regulation 669/2018/8 TRGS 900, German e SUVA .CH, Limits in a	Jata EU adaptation of CLP regulation 1272/2008/EU to technical and scientific progress EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS EU, 4 th adaptation of CLP regulation to technical and scientific progress EU, 4 th adaptation of CLP regulation to technical and scientific progress ngineering rules governing limits in air at work, updated 03/2018 ir at work 2009, revised on 01.2009 Markhätter Gefährliche Arbeitstoffe (Data Sheets of Hazardous Substances)		

KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

Revisions/Updates

Reason for Revision: 2016-03 Adaptation of regulation 1221/2015/EU

