# **MACHEREY-NAGEL**



## **Safety Data Sheet**

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

REF: 985091	NANOCOLOR Thiocyanate 50	Page: 1/7
Printing date: 02.06.2020	Date of issue: 25.07.2018	

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

1.1	Product identifier REF Product name	985091 NANOCOLOR Thiocyanate 50
	REACH Registration number(s): A registration number for the subst the substance or its use is excluded	see SECTION 3.1/3.2 or ance(s) does not require registration or I from registration.
		1 x 5 mL Blank (NULL) 20 x 2 mL Thiocyanate 50 (R0)
1.2	Relevant identified uses Product for analytical use.	substance or mixture and uses advised against ation according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0 egrated into sections 1-16.
1.3	Details of the supplier of the s Manufactured by: MACHEREY-NAGEL GmbH & Co. I Neumann-Neander-Str. 6-8, 52355 Tel.: +49 2421 969 0	- KG
1.4	Emergency telephone number 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 lang	uages) in Internet: http://www.mn-net.com/SDS
SECTI	ON 2: Hazard identification	1
2.0	Classification of the complete	product

#### 2.0 Classification of the complete product

	GHS07
Signal word	WARNING
Hazard identification	Hazard classes/categories
Hazard identification H290	Hazard classes/categories Met. Corr. 1
H290 H315	
H290	Met. Corr. 1

#### 2.1 Classification of the substance or mixture

### 5 mL Blank (NULL)

Signal word

Do not need labelling as hazardous

No hazard class

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### 2 mL Thiocyanate 50 (R0)

Signal word

GHS07	
WARNING	3

Hazard identification	Hazard classes/categories	
H290	Met. Corr. 1	
H315	Skin Irrit. 2	
H319	Eye Irrit. 2	
H335	STOT SE 3	

#### 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).

Metal corrosive solutions do not have to be labelled with GHS symbol, signal word, H and P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2.1.3).

### 5 mL Blank (NULL)

Do not need labelling as hazardous Signal word: -

### 2 mL Thiocyanate 50 (R0)



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 inhalation of vapours/dust, 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

5 mL Blank (NULL)

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	Chamiest	_		CAC No. 7722 49 5
	Chemical: wate Classification:		homical not required	CAS No.: 7732-18-5
	Formula:	No criteria for classification or naming of $CH_2O$	nemical not required.	
	TSCA Inventory:	listed		
	REACH Reg. No.:	exempt, Annex IV		
	EC No.:	231-791-2		
	RTECS: KE No.:	ZC0110000 KE-35400		
	Concentration:	90 - <100 %		
	acc. CLP (GHS):	The criteria for classification are not fulfille	d.	
	2 mL Thiocyanate 50 (R0)			
		ochloric acid		CAS No.: 7647-01-0
	Classification:	H290, Met. Corr. 1, H314, Skin C	orr. 1B, H331, Acute	Tox. 3 inh.
	Formula: Pseudonym:	HCI•H <sub>2</sub> O aqueous hydrogen chloride		
	TSCA Inventory:	listed		
	REACH Reg. No.:	01-2119484862-27-xxxx		
	EC No.:	231-595-7	Indice No.:	017-002-01-X
	RTECS:	MW4025000		
	KE No.: Concentration:	KE-20189, >10% Toxic 97-1-203, 10 - <25 %	Acc. Precaution Che	em.
	acc. CLP (GHS):	H290, Met. Corr. 1, H315, Skin Iri	it. 2, H319, Eye Irrit.	2, H335, STOT SE 3
3.3	Remarks			
	When not listed, mixtures ar	e added with water [CAS No. 7732-1	8-5] to 100%.	
	List of H and P phrases: see	e section 16.1		
SECI	ΓΙΟΝ 4: First aid measι	ires		
4.1	Description of first aid m			
	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		ns and effects, both acute a	-	
4.2	 Indication of any immed	iste medical attention and a	nacial tractman	translad
4.3	Indication of any immediate medical attention and special treatment needed No additionally recommendations			
SECI	ΓΙΟΝ 5: Firefighting me	asures		
5.1	Extinguishing media			
	• •	the fire classification and if applicable	le a fire blanket mus	st be available in a prominent location in the

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.



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# Safety Data Sheet

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#### 5.4 Additional information

### **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.
- 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): 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**

5 mL Blank (NULL) CAS No.: 7732-18-5 Chemical: water 2 mL Thiocyanate 50 (R0) CAS No.: 7647-01-0 Chemical: hydrochloric acid [inh] 8 mg/m<sup>3</sup> DNEL: DNEL = Derived No-Effect Level (for workers) PNEC (fresh water) : 36 µg/L PNEC = Predicted No Effected Concentration EU value: [TWA] 5 ppm / 8 mg/m<sup>3</sup>; [STEL] 10 ppm/ 15 mg/m<sup>3</sup> TRGS 900 (DE): 2 mL/m<sup>3</sup> / 3 mg/m<sup>3</sup> E/e respirable Short-term exposure factor: 2 (I), Y skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded SUVA(CH) MAK value: 2 ppm / 3\* mg/m<sup>3</sup> NIOSH: [C] 5 ppm / 7 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 List of highly hazardous chemicals, toxics and reactives Yes (TQ = 5000 lbs) n/a; TWA 5 ppm / 7 OSHA: mg/m<sup>3</sup>

#### 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.



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8.2.2	2 Hand protection Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. fron or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.			or Nitril (f.ex. from Ansell
8.2.3	<b>Eye protection</b> Yes, safety glasses according	g EN 166 with integrated side shields	or wrap-around protection.	
8.2.4	Skin protection Not necessary.			
8.2.5	<b>Personal hygiene</b> 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.			
SECTIO	N 9: Physical and ch	emical properties		
9.1 l	nformation on basic phy	sical and chemical propertion	es	
	<b>5 mL Blank (NULL)</b> Appearance: liquid pH: Specific gravity:	Colour: colourless 6-8 1,00 g/cm³	Odor: odorless	
	<b>2 mL Thiocyanate 50 (R0)</b> Appearance: liquid pH: Specific gravity: Solubility in water:	Colour: slightly yellow 0 1,05 g/cm³ 0-100 %	Odor: penetrative	

#### 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

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 Avoid contact with strong acids or alkalines.
- 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.

### 5 mL Blank (NULL)

Chemical: water **TSCA** Inventory: listed Korea Exist.Chem.Inventory: KE-35400 CAS No.: 7732-18-5



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	2 mL Thiocyanate 50 (R0)		
Chemical: hydro TSCA Inventory: Exposure Routes: Target Organs: Symptoms: animals: laryngeal spasm; Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.Inventor LD50 <sub>orl rat</sub> : LC50 <sub>drm rbt</sub> :		at listed Canada CEPA 1999: DSL Yes tt listed, Japan PDSCL: Deleterious Substance ted ≥0,2%/≥0,1%, Article 57-2 (SDS required) ccident Precaution Chemical Yes E-20189, >10% Toxic 97-1-203, Acc. Precaution Chem. 10 mg/kg 010 mg/kg ation of vapours/dust, impairments of health when ingested in small qua	in burns; liquid: frostbite; in
SECT 12.1	TION 12: Ecological inform Toxicity Following information is valid for		
	5 mL Blank (NULL) Chemical: water	CAS No.	: 7732-18-5
	2 mL Thiocyanate 50 (R0) Chemical: hydro PNEC (fresh water) : PNEC = Predicted No Effected Co LC50fish/96h : EC50daphnia/48h : EC50pseudokirchneriella subcap Water hazard class (DE): Storage class (VCI):	36 μg/L ncentration 24.6 mg/L 0.492 mg/L	: 7647-01-0
12.2	Persistence and degradabil not necessary	ity	
12.3	Bioaccumulative potential not necessary		
12.4	Mobility in soil not necessary		
12.5	Results of PBT and vPvB as no data available	ssessment	
12.6	Other adverse effects no additional data available		
Р	TION 13: Disposal consid Please observe local regulations for colle	ction and disposal of hazardous waste and contact waste disposal com	ıpany, where you will obtain
13.1	Waste treatment methods	······································	
9507	ION 14: Transport inforn	nation	
	4.1 - 14.4: No dangerous goods accordi		
14.5	Environmental hazards		
17.5		of hazardous substances	

none, contains only small quantities of hazardous substances



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#### 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

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 relevant H phrases

<b>List of releva</b> r P261sh	<b>It P phrases</b> Avoid breathing dust/vapours.
H335	May cause respiratory irritation.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H290	May be corrosive to metals.

P20150	Avoid breatning dust/vapours.
P280sh	Wear protective gloves/eye protection.
P390	Absorb spillage to prevent material damage.
P403+233	Store in a well-ventilated place. Keep container tightly closed.

#### 16.2 Training advice

16.1.2

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.

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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, 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



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