# MACHEREY-NAGEI



# Safety Data Sheet

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

REF: 985074	NANOCOLOR Phenolic index 5	Page: 1/9
Printing date: 01.10.2019	Date of issue: 20.05.2019	

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

1.1 **Product identifier** REF

Product name

985074 NANOCOLOR Phenolic index 5

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 20x 14 mg NANOFIX Phenolic Index 5 (R3) 20 x 38 mg Phenolic index 5 (R0) 2 x 11 mL Phenolic index 5 (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

#### 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/SDS

E-mail: sds@mn-net.com (msds@mn-net.com)

# SECTION 2: Hazard identification

#### 2.0 Classification of the complete product



Signal word	DANGER
Hazard identification	Hazard classes/categories
H315 H317 H319 H334	Skin Irrit. 2 Skin Sens. 1 Eye Irrit. 2 Resp. Sens. 1

#### 2.1 Classification of the substance or mixture

20x 14 mg NANOFIX Phenolic Index 5 (R3)



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Signal word	DANGER	
Hazard identification	Hazard classes/categories	
H315	Skin Irrit. 2	
H317	Skin Sens. 1	
H319	Eye Irrit. 2	
H334	Resp. Sens. 1	
38 mg Phenolic index 5 (R0)		
	Do not need labelling as hazardous	
Signal word	-	
No hazard class		
11 mL Phenolic index 5 (R2)		
	$\wedge$	
	GHS07	
Signal word	WARNING	
Hazard identification	Hazard classes/categories	
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). This labelling exemption is NOT valid for sensibilizing substances.

### 20x 14 mg NANOFIX Phenolic Index 5 (R3)



Signal word: DANGER

H317. H334

May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

P261sh, P280sh, P342+311 Avoid breathing dust/vapours. Wear protective gloves/eye protection. If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

### 38 mg Phenolic index 5 (R0)

Do not need labelling as hazardous Signal word: -

### 11 mL Phenolic index 5 (R2)





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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 skin contact, impairments of health when ingested in small quantities. May cause sensitization by skin contact, also in repeated contact of small amounts. May cause allergy or asthma symptoms or breathing difficulties if inhaled. -

Information pertaining to particular risks to the environment PBT: not applicable vPvB: not applicable

Other hazards

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances or 3.2 Mixtures

20x 14 mg NANOFIX Phenolic Index 5 (R3) potassium peroxydisulfate Chemical: CAS No.: 7727-21-1 Classification: H272, Ox. Liq. 2, H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H317, Skin Sens. 1, H319, Eye Irrit. 2, H334, Resp. Sens. 1, H335, STOT SE 3 Formula: K2 O8 S2 Pseudonym: potassium persulfate TSCA Inventory: listed REACH Reg. No.: 01-2119495676-19-xxxx 231-781-8 EC No .: 016-061-00-1 Indice No · RTECS: SE0400000 MFCD: 00011386 KE No .: KE-12177 20 - <40 % Concentration: acc. CLP (GHS): H315, Skin Irrit. 2, H317, Skin Sens. 1, H319, Eye Irrit. 2, H334, Resp. Sens. 1, EUH208, Skin Sens 1 38 mg Phenolic index 5 (R0) CAS No.: 83-07-8 Chemical. 4-amino-2,3-dimethyl-1-phenyl-3-pyrazolin-5-on Classification: H302, Acute Tox. 4 oral Formula: C<sub>11</sub> H<sub>13</sub> N<sub>3</sub> O Pseudonym: 4-amino-1,2-dihydro-1,5-dimethyl-2-phenyl-3H-pyrazol-3-one TSCA Inventory: listed 201-452-3 EC No.: CD2480000 MFCD: RTECS: 00003145 Concentration: 25 - <50 % acc. CLP (GHS): The criteria for classification are not fulfilled. 11 mL Phenolic index 5 (R2) Chemical: ammonia solution CAS No.: 1336-21-6 Classification: H314, Skin Corr. 1B, H335, STOT SE 3, H400, Aquatic Acute 1 Formula<sup>-</sup> NH3 •H2 O Pseudonym: ammonium hydroxide, Aqua ammonia, aqueous ammonia TSC

TSCA Inventory:	listed		
REACH Reg. No.:	01-2119488876-14-xxxx, 01-2119982985-14-XXXX		
EC No.:	215-647-6	Indice No.:	007-001-01-2
RTECS:	BQ9625000	MFCD:	00011418
KE No.:	KE-01688, >10% Toxic 97-1-184		
Concentration:	1 - <5 %		
acc. CLP (GHS):	H315, Skin Irrit. 2, H319, Eye Irrit. 2		



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	Chemical: potas	ssium sodium tartrate		CAS No.: 6381-59-5	
	Classification: Formula: TSCA Inventory:	No criteria for classification or nam C <sub>4</sub> H <sub>4</sub> KNaO <sub>6</sub> listed (CAS 4504-50-1 di Na	<b>.</b>		
	EC No.: KE No.: Concentration: acc. CLP (GHS):	205-698-2 not listed 10 - <100 % The criteria for classification are no	MFCD:	00150989	

### 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 16.1

### **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. Take to a doctor, in a raised position if there are breathing difficulties.

### 4.1.1 After SKIN Contact

Remove contaminated clothing immediately. Rinse the affected skin or mucous membrane thoroughly for min. 15 minutes under running water. (If possible) use soap. Avoid neutralisation. Then apply a loose bandage.

### 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. Administer a Dexamethasone spray as soon as possible. Ensure quiet, warmth, and provide resuscitation if necessary. In the event of respiratory distress ensure that the patient inhales oxygen. Secure the breathing, heart and circulatory function. ---

### 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

Chronic Effects: May cause sensitization by skin contact, also in repeated contact of small amounts. May cause allergy or asthma symptoms or breathing difficulties if inhaled. ---

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

After SKIN CONTACT rinse with water for a long time. Apply glucocorticosteroides following inflammatory reactions. Inform patient respectively further measures and the possibility of long-term damages. ---

# **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. Spray any vapours released with water. Retent fire water. Use only acid-resistant safety equipment. For great amount - if necessary - protective breathing apparatus which is independent of the ambient air (isolated equipment), and

sealed protective clothing is necessary in the event of a large-scale formation of toxic substances.

### 5.4 Additional information

Danger for environment only in the event of a large-scale leakage or formation of hazardous substances. ---



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## **SECTION 6: Accidental release measures**

6.1	<b>Personal precautions, protective equipment and emergency procedures</b> Do not breathe vapours. Wear suitable protective gloves (see 8.2.2). Wear eye protection. Regular staff training is necessary, indicating hazards and precautions on the basis of operating instructions. Restrictions on activity must be observed.
6.2	Environmental precautions not necessary
6.3	Methods and material for containment and cleaning up Bind any escaping liquid with inert absorbent. And dispose in accordance to local regulations for the disposal of hazardous chemicals. Clean any contaminated equipment and floors with plenty of water. Collect small amounts of leaked liquid and flush with water into drains.
6.4	Reference to other sections see information in section 5.4
SEC	FION 7: Handling and storage
SEC <sup>-</sup> 7.1	FION 7: Handling and storage Precautions for safe handling Handling in accordance with the test instruction, that comes with the product. Use only in well-ventilated working areas. Use a safety bottle when shaking test tubes.
	<b>Precautions for safe handling</b> Handling in accordance with the test instruction, that comes with the product. Use only in well-ventilated working areas. Use a safety

### 7.3 Specific end use(s)

Product for analytical use.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1 **Control parameters**

20x 14 mg NANOFIX Phe Chemical: potassium p DNEL: DNEL = Derived No-Efi	peroxydisulfate [derm] 18,2 mg/kg bw/day; [inh] 2.06 mg/m³	CAS No.: 7727-21-1
TRGS 900 (DE):	- E/e respirable	
NIOSH: [TWA] Time-weighted a	not listed verage to a reference period of 8 hours, [STEL] Short-term exp	osure limit related to a 15-minute period
OSHA:	not listed	
38 mg Phenolic index 5		
Chemical: 4-amino-2,3	3-dimethyl-1-phenyl-3-pyrazolin-5-on	CAS No.: 83-07-8
<b>11 mL Phenolic index 5</b> Chemical: <i>ammonia sc</i> DNEL: DNEL = Derived No-Eff	lution [inh] 14 mg/m³	CAS No.: 1336-21-6
PNEC(fresh water) : PNEC = Predicted No B	0.0011 mg/L Effected Concentration	
EU value: TRGS 900 (DE):	20 ppm / 14 mg/m³ 20 ppm / 14 mg/m³ E/e respirable	
Short-term exposure factor skin resorptive (H), res	r: 2 (I), Y spiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z	) not securely excluded / (Y) certainly excluded
SUVA(CH) MAK value: NIOSH: NIOSH STEL: [TWA] Time-weighted a	20 ppm / 14 mg/m <sup>3</sup> [TWA] 25 ppm / 18 mg/m <sup>3</sup> 35 ppm / 27 mg/m <sup>3</sup> verage to a reference period of 8 hours, [STEL] Short-term exp	osure limit related to a 15-minute period
OSHA:	Yes (TQ = 15000 lbs) - n/a; [TWA] 50 ppm / 35	mg/m <sup>3</sup>

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	Chemical: potassium	sodium tartrate CAS No	: 6381-59-5	
8.2	Exposure controls			
	Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities. The highe level of cleanliness must be maintained at the workplace.			
3.2.1	<b>Respiratory protection</b> Use for open access of these substances for example a protection filter, class A/AX. No additional recommendations.			
3.2.2	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.			
3.2.3	<b>Eye protection</b> Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection.			
3.2.4	Skin protection Recommended to avoid contamination with these hazards.			
3.2.5	<b>Personal hygiene</b> Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid conta with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hand thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.		soak it in water. Wash hands	
SECT	ION 9: Physical and	chemical properties		
Э.1	1 Information on basic physical and chemical properties			

20x 14 mg NANOFIX Phenolic In Appearance: solid (lyoph.) pH: Solubility in water:	ndex 5 (R3) Colour: colourless 5-7 0-100 %	Odor: odorless
<b>38 mg Phenolic index 5 (R0)</b> Appearance: solid (lyoph.) Solubility in water:	Colour: red 0-100 %	Odor: odorless
<b>11 mL Phenolic index 5 (R2)</b> Appearance: liquid Solubility in water:	Colour: colourless 0-100 %	Odor: aminic

### 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

Not necessary. 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.



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	0	gical information	
11.1	Information on to Following information	kicological effects is valid for pure substances. Quantitative data on the to:	xicity of this product are not available.
		IX Phenolic Index 5 (R3)	
	Chemical:	potassium peroxydisulfate	CAS No.: 7727-21-1
	TSCA Inventory: Australia NICNAS:	listed California Proposition 65 I Yes (PEC/18) Canada CEPA 199	
	Japan CSCL/PRTR	not listed, Japan PDSCL: not listed	
	Japan ISHL: South Korea TCCA	listed ≥1,0%/≥0,1%, Article 57-2 (SDS required) tisted	
		nventory: KE-12177	
	LD50 <sub>orl rat</sub> : Acute Effects: Caus	802 mg/kg se after skin contact, impairments of health when ingested	in small quantities
	Chronic Effects: Ma	ay cause sensitization by skin contact, also in repeated con	tact of small amounts. May cause allergy or asthma
	symptoms or breatl TRGS 907 (DE):	ning difficulties if inhaled. Sah	
	38 mg Phenolic in		
	Chemical: TSCA Inventory:	4-amino-2,3-dimethyl-1-phenyl-3-pyrazolin-5-on listed	CAS No.: 83-07-8
	LD50 <sub>orl rat</sub> :	1700 mg/kg	
	11 mL Phenolic in		
	Chemical: TSCA Inventory:	ammonia solution listed California Proposition 65 I	CAS No.: 1336-21-6 List: not listed
	Exposure Routes:	inhalation, ingestion (solution), skin and/or eye o	
	Target Organs: Symptoms:	Eyes, skin, respiratory system irritation eyes, nose, throat; dyspnea (breathing	difficulty), wheezing, chest pain; pulmonary edema;
		skin burns, vesiculation; I	
	Australia NICNAS: (Item 53.)	not listed Canada CEPA 199	99: DSL yes, Toxic Substances (Schedule 1) Yes
	Japan CSCL/PRTR Japan ISHL:	t: not listed, Japan PDSCL: Deleterious Substance listed ≥0,2%/≥0,1%, Article 57-2 (SDS required)	
	South Korea TCCA	not listed	
	Korea Exist.Chem.l LD50 <sub>orl rat</sub> :	nventory: KE-01688, >10% Toxic 97-1-184 350 mg/kg	
	LC_Lowihl hmn :	5000 mg/m <sup>3</sup>	
	LC50 <sub>ihl rat</sub> : LD50 <sub>drm rbt</sub> :	[4h] 2000 ppm [5min] 5000 ppm	
		[]	
	Chemical:	potassium sodium tartrate	CAS No.: 6381-59-5
	TSCA Inventory: Korea Exist.Chem.	listed (CAS 4504-50-1 di Na salt) nventory: not listed	
	LD50 <sub>orl rat</sub> :	>2000 mg/kg	
SEC	FION 12: Ecologic	al information	
12.1	Toxicity		
	-	is valid for pure substances.	
	5	IX Phenolic Index 5 (R3)	CAC No. 7707.04.4
	Chemical: Water hazard o	potassium peroxydisulfate class (DE): 1 WGK No.: 1350	CAS No.: 7727-21-1
	Storage class		
	38 mg Phenolic in	dex 5 (R0)	
	Chemical:	4-amino-2,3-dimethyl-1-phenyl-3-pyrazolin-5-on	CAS No.: 83-07-8
	Water hazard Storage class		
		· · ·	



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	11 mL Phenolic index 5 (R2) Chemical: ammonia s PNEC (fresh water) : PNEC = Predicted No Effected Concentr LC50fish/96h : EC50daphnia/48h : Water hazard class (DE): Storage class (VCI):		CAS No.: 1336-21-6	
	Chemical: <i>potassium</i> Water hazard class (DE): Storage class (VCI):	sodium tartrate 1 12-13	CAS No.: 6381-59-5	
12.2	Persistence and degradability not necessary			
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**

none, 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

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 ---



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## **SECTION 16: Other information**

#### List of H and P phrases 16.1

### 16.1.1 List of relevant H phrases

	H315	Causes skin irritation.	
	H317	May cause an allergic skin reaction.	
	H319	Causes serious eye irritation.	
	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
	EUH208	Contains (). May produce an allergic reaction.	
2	List of relevant P phrases		
	P261sh	Avoid breathing dust/vapours.	
	P280sh	Wear protective gloves/eye protection.	

# 16.1.2

P261sh	Avoid breathing dust/vapours.
P280sh	Wear protective gloves/eye protection.
P304+340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P342+311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

#### 16.2 **Training advice**

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.

#### 16.3 **Recommended restriction on use**

Only for professional user.

Look about employee restrictions for young people (f. ex. 94/33/EC or DE § 22 JArbSchG)! Look about employee restrictions for pregnant women and nursing women (f.ex. 92/85/EEC or for DE §§ 11-13 MuSchG 2017)! 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. 4th adaptation of CLP regulation to technical and scientific progress TRGS 900, German engineering rules governing limits in air at work, updated 03/2018

SUVA .CH, Limits in air at work 2009, revised on 01.2009

TRGS 907, German engineering rules governing listing of substances and causes of sensitizations, updated November 2011 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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