

Safety Data Sheet

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

REF: 985674

NANOCOLOR Phenolic index 5, robot

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Printing date: 06.01.2021

Date of issue: 06.08.2020

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

1.1 Product identifier

REF 985674
Product name NANOCOLOR Phenolic index 5, robot

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 38 mg Phenolic index 5 (R0)
1 x 40 mL Phenolic index 5 Reagent A
1 x 200 mg Phenolic index 5 Reagent B1
1 x 5 mL Phenolic index 5 Reagent B2

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 Düren, GERMANY
Tel.: +49 2421 969 0

E-mail: sds@mn-net.com (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/SDS>

SECTION 2: Hazard identification

2.0 Classification of the complete product



GHS07



GHS08

Signal word

DANGER

Hazard identification

Hazard classes/categories

H315	Skin Irrit. 2
H317	Skin Sens. 1
H319	Eye Irrit. 2
H334	Resp. Sens. 1

2.1 Classification of the substance or mixture

38 mg Phenolic index 5 (R0)

Signal word

Do not need labelling as hazardous

-

No hazard class

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40 mL Phenolic index 5 Reagent A



GHS07

Signal word

WARNING

Hazard identification

Hazard classes/categories

H315

Skin Irrit. 2

H319

Eye Irrit. 2

200 mg Phenolic index 5 Reagent B1



GHS07



GHS08

Signal word

DANGER

Hazard identification

Hazard classes/categories

H315

Skin Irrit. 2

H317

Skin Sens. 1

H319

Eye Irrit. 2

H334

Resp. Sens. 1

5 mL Phenolic index 5 Reagent B2

Signal word

Do not need labelling as hazardous

-

No hazard class

2.2 Label elements

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

38 mg Phenolic index 5 (R0)

Do not need labelling as hazardous

Signal word: -

40 mL Phenolic index 5 Reagent A



GHS07

Signal word: WARNING

200 mg Phenolic index 5 Reagent B1



GHS07



GHS08

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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.

5 mL Phenolic index 5 Reagent B2

Do not need labelling as hazardous

Signal word: -

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

38 mg Phenolic index 5 (R0)

Chemical:	4-amino-2,3-dimethyl-1-phenyl-3-pyrazolin-5-on	CAS No.:	83-07-8
Classification:	H302, Acute Tox. 4 oral		
Formula:	C ₁₁ H ₁₃ N ₃ O		
Pseudonym:	4-amino-1,2-dihydro-1,5-dimethyl-2-phenyl-3H-pyrazol-3-one		
TSCA Inventory:	listed		
EC No.:	201-452-3		
RTECS:	CD2480000	MFCD:	00003145
Concentration:	25 - <50 %		
acc. CLP (GHS):	The criteria for classification are not fulfilled.		

40 mL Phenolic index 5 Reagent A

Chemical:	ammonia solution	CAS No.:	1336-21-6
Classification:	H314, Skin Corr. 1B, H335, STOT SE 3, H400, Aquatic Acute 1		
Formula:	NH ₃ · H ₂ O		
Pseudonym:	ammonium hydroxide, Aqua ammonia, aqueous ammonia		
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		

Chemical:	potassium sodium tartrate	CAS No.:	6381-59-5
Classification:	No criteria for classification or naming of chemical not required.		
Formula:	C ₄ H ₄ KNaO ₆		
TSCA Inventory:	listed (CAS 4504-50-1 di Na salt)		
EC No.:	205-698-2	MFCD:	00150989
KE No.:	not listed		
Concentration:	10 - <100 %		
acc. CLP (GHS):	The criteria for classification are not fulfilled.		

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200 mg Phenolic index 5 Reagent B1

Chemical: *potassium peroxydisulfate* 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: $K_2O_8S_2$
 Pseudonym: potassium persulfate
 TSCA Inventory: listed
 REACH Reg. No.: 01-2119495676-19-xxxx
 EC No.: 231-781-8 Indice No.: 016-061-00-1
 RTECS: SE0400000 MFCD: 00011386
 KE No.: KE-12177
 Concentration: 20 - <40 %
 acc. CLP (GHS): H315, Skin Irrit. 2, H317, Skin Sens. 1, H319, Eye Irrit. 2, H334, Resp. Sens. 1, EUH208, Skin Sens. 1

5 mL Phenolic index 5 Reagent B2

Chemical: *water* CAS No.: 7732-18-5
 Classification: No criteria for classification or naming of chemical not required.
 Formula: H_2O
 TSCA Inventory: listed
 REACH Reg. No.: exempt, Annex IV
 EC No.: 231-791-2
 RTECS: ZC0110000
 KE No.: KE-35400
 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 16.1

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. ---

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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. ---

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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 ---

SECTION 7: Handling and storage

7.1 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.

7.2 Conditions for safe storage, including any incompatibilities

The original product package of MACHEREY-NAGEL allows a safe storage.

Storage class (VCI): 5.1B

Water hazard class (DE): 2

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

38 mg Phenolic index 5 (R0)

Chemical: 4-amino-2,3-dimethyl-1-phenyl-3-pyrazolin-5-on

CAS No.: 83-07-8

40 mL Phenolic index 5 Reagent A

Chemical: ammonia solution

CAS No.: 1336-21-6

DNEL: [inh] 14 mg/m³
DNEL = Derived No-Effect Level (for workers)

PNEC(fresh water): 0.0011 mg/L
PNEC = Predicted No Effect Concentration

EU value: 20 ppm / 14 mg/m³

TRGS 900 (DE): 20 ppm / 14 mg/m³
E/e respirable

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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: 20 ppm / 14 mg/m³
NIOSH: [TWA] 25 ppm / 18 mg/m³
NIOSH STEL: 35 ppm / 27 mg/m³
[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period
OSHA: Yes (TQ = 15000 lbs) - n/a; [TWA] 50 ppm / 35 mg/m³

Chemical: *potassium sodium tartrate*

CAS No.: 6381-59-5

200 mg Phenolic index 5 Reagent B1

Chemical: *potassium peroxydisulfate*

CAS No.: 7727-21-1

DNEL: [derm] 18,2 mg/kg bw/day; [inh] 2.06 mg/m³

DNEL = Derived No-Effect Level (for workers)

TRGS 900 (DE):

-
E/e respirable

NIOSH: not listed

[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: not listed

5 mL Phenolic index 5 Reagent B2

Chemical: *water*

CAS No.: 7732-18-5

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

Use for open access of these substances for example a protection filter, class A/AX. 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

Recommended to avoid contamination with these hazards.

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

38 mg Phenolic index 5 (R0)

Appearance: solid (lyoph.)

Colour: red

Odor: odorless

Solubility in water:

0-100 %

40 mL Phenolic index 5 Reagent A

Appearance: liquid

Colour: colourless

Odor: aminic

Solubility in water:

0-100 %

200 mg Phenolic index 5 Reagent B1

Appearance: solid (lyoph.)

Colour: colourless

Odor: odorless

pH:

5-7

Solubility in water:

0-100 %

5 mL Phenolic index 5 Reagent B2

Appearance: liquid

Colour: colourless

Odor: odorless

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pH: 6-8
Specific gravity: 1,00 g/cm³

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.

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.

38 mg Phenolic index 5 (R0)

Chemical: 4-amino-2,3-dimethyl-1-phenyl-3-pyrazolin-5-on CAS No.: 83-07-8
TSCA Inventory: listed
LD50_{orl rat}: 1700 mg/kg

40 mL Phenolic index 5 Reagent A

Chemical: ammonia solution CAS No.: 1336-21-6
TSCA Inventory: listed California Proposition 65 List: not listed
Exposure Routes: inhalation, ingestion (solution), skin and/or eye contact (solution/liquid)
Target Organs: Eyes, skin, respiratory system
Symptoms: irritation eyes, nose, throat; dyspnea (breathing difficulty), wheezing, chest pain; pulmonary edema;
pink frothy sputum; skin burns, vesiculation; I
Australia NICNAS: not listed Canada CEPA 1999: DSL yes, Toxic Substances (Schedule 1) Yes
(Item 53.)
Japan CSCL/PRTR: not listed, Japan PDSCL: Deleterious Substance
Japan ISHL: listed ≥0,2%/≥0,1%, Article 57-2 (SDS required)
South Korea TCCA: not listed
Korea Exist.Chem.Inventory: KE-01688, >10% Toxic 97-1-184
LD50_{orl rat}: 350 mg/kg
LC₅₀ _{ihl hmn}: 5000 mg/m³
LC50_{ihl rat}: [4h] 2000 ppm
LD50_{drm rbt}: [5min] 5000 ppm

Chemical: potassium sodium tartrate CAS No.: 6381-59-5
TSCA Inventory: listed (CAS 4504-50-1 di Na salt)
Korea Exist.Chem.Inventory: not listed
LD50_{orl rat}: >2000 mg/kg

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200 mg Phenolic index 5 Reagent B1

Chemical: *potassium peroxydisulfate* CAS No.: 7727-21-1
TSCA Inventory: listed California Proposition 65 List: not listed
Australia NICNAS: Yes (PEC/18) Canada CEPA 1999: DSI Yes
Japan CSCL/PRTR: not listed, Japan PDSCL: not listed
Japan ISHL: listed $\geq 1,0\%$ / $\geq 0,1\%$, Article 57-2 (SDS required)
South Korea TCCA: not listed
Korea Exist.Chem.Inventory: KE-12177
LD50_{orl rat}: 802 mg/kg
Acute Effects: Cause after skin contact, impairments of health when ingested in small quantities.
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.
TRGS 907 (DE): Sah

5 mL Phenolic index 5 Reagent B2

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

SECTION 12: Ecological information

12.1 Toxicity

Following information is valid for pure substances.

38 mg Phenolic index 5 (R0)

Chemical: *4-amino-2,3-dimethyl-1-phenyl-3-pyrazolin-5-on* CAS No.: 83-07-8
Water hazard class (DE): 1
Storage class (VCI): 12-13

40 mL Phenolic index 5 Reagent A

Chemical: *ammonia solution* CAS No.: 1336-21-6
PNEC(fresh water): 0.0011 mg/L
PNEC = Predicted No Effect Concentration
LC50_{fish/96h}: 0,89 mg/L
EC50_{daphnia/48h}: 101 mg/L
Water hazard class (DE): 2 WGK No.: 0211
Storage class (VCI): 8 B

Chemical: *potassium sodium tartrate* CAS No.: 6381-59-5
Water hazard class (DE): 1
Storage class (VCI): 12-13

200 mg Phenolic index 5 Reagent B1

Chemical: *potassium peroxydisulfate* CAS No.: 7727-21-1
Water hazard class (DE): 1 WGK No.: 1350
Storage class (VCI): 5.1 B

5 mL Phenolic index 5 Reagent B2

Chemical: *water* CAS No.: 7732-18-5

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

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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

14.5 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 ---

SECTION 16: Other information

16.1 List of H and P phrases

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.

16.1.2 List of relevant P phrases

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

Regulation 1480/2018/EU, 4th adaptation of CLP regulation to technical and scientific progress

TRGS 900, German engineering rules governing limits in air at work, updated 03/2019

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