

Safety Data Sheet

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

NANOCOLOR Phenolic index 5 Page: 1/9

Date of issue: 20.05.2019 Printing date: 02.06.2020

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

1.1 **Product identifier**

REF 985074

Product name 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 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





GHS08

DANGER Signal word

Hazard identification	Hazard classes/categories
H315	Skin Irrit. 2
H317	Skin Sens. 1
H319	Eye Irrit. 2
H334	Poen Sone 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)



GHS07

Signal word WARNING

Hazard identification	Hazard classes/categories
H315	Skin Irrit. 2
⊔ 210	Evo 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)





GHS07 GHS08

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 FC No : 016-061-00-1 Indice No : RTECS: SE0400000 MFCD: 00011386

KE No.: KE-12177 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: C₁₁ H₁₃ N₃ 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 RTECS:

MFCD: 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: NH3 •H2 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 RTFCS BQ9625000 MECD: 00011418

KE-01688, >10% Toxic 97-1-184 KE No .:

Concentration: 1 - <5 %

acc. CLP (GHS): H315, Skin Irrit. 2, H319, Eye Irrit. 2

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Chemical: potassium sodium tartrate CAS No.: 6381-59-5

Classification:

No criteria for classification or naming of chemical not required.

Formula: C₄ H₄ KNaO₆

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.

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 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): Water hazard class (DE)

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

20x 14 mg NANOFIX Phenolic Index 5 (R3)

potassium peroxydisulfate CAS No.: 7727-21-1

[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

38 mg Phenolic index 5 (R0)

4-amino-2,3-dimethyl-1-phenyl-3-pyrazolin-5-on CAS No : 83-07-8 Chemical:

11 mL Phenolic index 5 (R2)

CAS No.: 1336-21-6 Chemical: ammonia solution [inh] 14 mg/m³ DNEL:

DNEL = Derived No-Effect Level (for workers) PNEC (fresh water): 0.0011 m PNEC = Predicted No Effected Concern 0.0011 mg/L

20 ppm / 14 mg/m³ FU value: TRGS 900 (DE): 20 ppm / 14 mg/m³ 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: 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

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> Chemical: CAS No.: 6381-59-5 potassium sodium tartrate

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

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

Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection.

Skin protection 8.2.4

Recommended to avoid contamination with these hazards.

Personal hygiene 8.2.5

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

20x 14 mg NANOFIX Phenolic Index 5 (R3)

Appearance: solid (lyoph.) Colour: colourless Odor: odorless

Solubility in water: 0-100 %

38 mg Phenolic index 5 (R0)

Appearance: solid (lyoph.) Colour: red Odor: odorless

Solubility in water: 0-100 %

11 mL Phenolic index 5 (R2)

Appearance: liquid Odor aminio Colour: colourless

Solubility in water: 0-100 %

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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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.

20x 14 mg NANOFIX Phenolic Index 5 (R3)

Chemical: potassium peroxydisulfate CAS No.: 7727-21-1

TSCA Inventory California Proposition 65 List: not listed listed Australia NICNAS: Yes (PEC/18) Canada CEPA 1999: DSI Yes

not listed, Japan PDSCL: not listed Japan CSCL/PRTR:

Japan ISHL: listed ≥1,0%/≥0,1%, Article 57-2 (SDS required)

South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-12177 802 mg/kg LD50_{orl rat}:

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):

38 mg Phenolic index 5 (R0)

4-amino-2,3-dimethyl-1-phenyl-3-pyrazolin-5-on Chemical: CAS No.: 83-07-8

TSCA Inventory: listed LD50_{orl rat}: 1700 mg/kg

11 mL Phenolic index 5 (R2)

ammonia solution Chemical: CAS No.: 1336-21-6

TSCA Inventory: 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

Canada CEPA 1999: DSL yes, Toxic Substances (Schedule 1) Yes Australia NICNAS: not listed

(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 LC_Lowinl 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 >2000 mg/kg LD50_{orl rat}:

SECTION 12: Ecological information

12.1 **Toxicity**

Following information is valid for pure substances.

20x 14 mg NANOFIX Phenolic Index 5 (R3)

Chemical: potassium peroxydisulfate CAS No.: 7727-21-1

Water hazard class (DE): WGK No.: 1350

Storage class (VCI): 5.1 B

38 mg Phenolic index 5 (R0)

4-amino-2,3-dimethyl-1-phenyl-3-pyrazolin-5-on CAS No.: 83-07-8

Water hazard class (DE):

Storage class (VCI): 12-13

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11 mL Phenolic index 5 (R2)

CAS No.: 1336-21-6 Chemical: ammonia solution

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

LC50_{fish/96h}: 0,89 mg/L EC50_{daphnia/48h}: 101 mg/L

Water hazard class (DE): , WGK No.: 0211

Storage class (VCI):

potassium sodium tartrate CAS No.: 6381-59-5

Water hazard class (DE): 12-13 Storage class (VCI):

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.

List of relevant P phrases 16.1.2

Avoid breathing dust/vapours. P261sh 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

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