

according to Directive 1907/2006/EC (REACh) and 453/2010/EU

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1 Identification of the Substance/Mixture and of the Company

1.1 Identification/Product Name

REF 985011

Product name NANOCOLOR COD 4000

20 x 5 mL COD 4000

1.2 Use of the Substance/Mixture

Product for analytical use.

Exposure Scenario Classification according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0

1.3 Manufacturer

MACHEREY-NAGEL GmbH & Co. KG

Neumann-Neander-Str. 6-8, 52355 Dueren, GERMANY

Tel.: +49 2421 969 0 E-mail: msds@mn-net.com

1.4 **Emergency Telephone**

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

2 Hazard Identification

2.1 **Hazard Symbols of Product**

Directive 1999/45/EC

Symbols

R





Т

С R 33-35-45-46

GHS Directive 1272/2008/EC

GHS Symbols







GHS05

Signalword **DANGER**

Hazard identification Hazard classes/categories

H314 Skin Corr. 1A Muta. 1B Carc. 1B H340 H350 **EUH203** Skin Sens. 1A/1B

2.2 **Hazard Description**

Possible Hazards from physicochemical Properties

Generally in the case of pH values are less than 2 or higher than 11.5 then it is corrosive. 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

Causes varying degrees of acid burns on the skin, to the eyes and to the mucous membranes and wounds which do not heal quickly depending on the concentration, temperature and the exposure time. Vapours especially which steam from hot liquids and mist can have a severe irritant effect upon the eyes and the respiratory organs. May cause genetic defects. May cause cancer if inhaled. Can accumulate within the body.

Information pertaining to particular Risks to the Environment

Avoid contact of chemical/mixture to environment.

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Other Hazards

2.3 Hazard description of the components

5 mL COD 4000

Directive 1999/45/EC

R 33-35-45-46

Symbols



Т

GHS Directive 1272/2008/EC

GHS Symbols







Signalword **DANGER**

Hazard identification	Hazard classes/categories
EUH203	Skin Sens. 1A/1B
H302	Acute Tox. 4 oral
H312	Acute Tox. 4 derm.
H314	Skin Corr. 1A
H332	Acute Tox. 4 inh.
H340	Muta. 1B
H350	Carc. 1B
H373	STOT RE 2
H412	Aguatic Chronic 3

3 Composition/Information on Ingredients

Hazardous Components 3.1

5 mL COD 4000

CAS No.: 7664-93-9 Chemical: sulphuric acid

Indice No:

Indice No.:

MFCD:

acc. CLP (GHS):

Concentration: 51 - 80 % Formula: H₂ SO₄

REACH Reg. No.: 01-2119458838-20

EC No.: 231-639-5 RTECS: WS5600000

TSCA listed: listed

acc. 1999/45/EC: R 35

potassium dichromate Chemical: CAS No.: 7778-50-9

Concentration: 0,28 - 0,56 % correlation factor: x 0.79 (= %CrO₄)

Formula: K₂ Cr₂ O₇ **SVHC** listed

231-906-6 EC No.: HX7680000 RTFCS TSCA listed: listed

R 20-45-46 acc. 1999/45/EC: acc. CLP (GHS): H340, H350, EUH203

CAS No.: 7783-35-9 Chemical: mercury(II) sulphate

Concentration: 0,37 - 0,74 % correlation factor: x 0.68 (= %Hg) HgSO₄ Formula: 231-992-5 080-004-00-7 EC No.: Indice No.:

RTECS: OX0500000 TSCA listed:

acc. 1999/45/EC: R 20/21/22-33-52/53 acc. CLP (GHS): H302, H312, H332, H373, H412

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3.2 Remarks

List of R and H phrases: see chapter 16

4 First Aid Measures

4.1 **General Information**

Place insured person out of danger zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitation if necessary. If necessary contact medical advice. Remove contaminated clothing. Show product package, packing insert and this material safety data sheet to the doctor

After SKIN Contact 4.1.1

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 contact with the eyes rinse thoroughly under running water with the eyelid wide open for min. 10 minutes with eye washing bottle, eye douche or running water (protect intact eye). Before (if possible) apply eye drops Proxymetacaine 0.5%, if the opening the eyelid convulsion is painful. Further treatment to be carried out by an eye specialist.

4.1.3

After inhalation of foam or vapour fresh air should be inhaled. Keep airways free. If vomiting and if insensible place patient in recovery position and keep airways free.

4.1.4

After oral intake lots of water with activated charcoal supplement should be drunk after it has been ingested. Do not induce vomiting under any circumstances. Do not make any efforts to neutralise it. Contact medical advice for possible consequences.

4.2 Further Medical Treatment/Attention

CORROSIVE DAMAGE: After SKIN CONTACT rinse with water for a long time. Efforts to neutralise the substance can frequently make matters worse. Apply glucocorticosteroides following inflammatory reactions. After EYE CONTACT rinse immediately with plenty of water for a long time. Eyelid convulsion measures. Name the corrosive chemical. Further treatment must to be carried out by an eye specialist. After INTAKE administer aluminium oxide drug suspensions. Administer a prophylaxis to counter pulmonary oedema following the INGESTION of corrosive aerosols. In the event of RESPIRATORY DISTREES ensure that the patient inhales oxygen.

5 **Fire-fighting Measures**

5.1 Suitable 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 Hazards, Combustion Products/Gases

Formation of hazardous and caustic vapour-air mixtures possible.

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

5.3 Special Protective Equipment required

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

Product package burns like paper or plastic. Spray any vapours released with water. Retent fire water. Use only acid-resistant safety equipment.

Accidental Release Measures 6

Personal Precautions 6.1

Do not breathe vapours. Wear suitable protective gloves (see 8.2.2). Wear eye protection, respectively face protection. Regular staff training is necessary, indicating hazards and precautions on the basis of operating instructions. Restrictions on activity must be

6.2 Methods of Cleaning-up

Bind any escaping liquid with universal binder. 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.

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7 Handling and Storage

7.1 Handling

In accordance with the testing instructions, that comes with the product. Use a safety bottle when shaking test tubes.

7.2

The original product package of MACHEREY-NAGEL allows a safe storage. Products containing also toxic substances should be kept

Storage class (German chemical industry): see chapter 12.1

7.2.1 **Requirements for Stock Rooms and Containers**

Keep original product packages tightly closed during handling and storage, so that they are not immediately accessible to outside parties. Use inbreakable container for transport of glass bottles.

8 **Exposure Controls/Personal Protection**

8.1 **Exposure Limit Values**

5 mL COD 4000

Chemical: sulphuric acid CAS No.: 7664-93-9

TRGS 900 (DE): 0.1 E mg/m³ TRGS 901 (DE): 104 SUVA(CH) MAK value: 0,1 e mg/m³ TRGS 905 (DE): R_F C

Chemical: potassium dichromate CAS No.: 7778-50-9

TRGS 900 (DE): (0,05 E) (alt) mg/m3

Short-term exposure factor: TRGS 901 (DE): Nr 3

SUVA(CH) MAK value: 0,05 e mg/m3 SUVA(CH) BAT value: U/b 20 µg/L

EU carcinogen: carc. 2, mut. 2, R_E 2, R_F 2

TRGS 905 (DE): TRGS 907 (DE):

Chemical: mercury(II) sulphate CAS No.: 7783-35-9

EU value: (0,1 e) mg/m³ 0.1 E mg/m³ TRGS 900 (DE): Short-term exposure factor: 8 (II) SUVA(CH) MAK value: 0,1 e mg/m³ SUVA(CH) BAT value: Krea U/d 35 µg/L TRGS 903 (DE): B/a 25; U/a 100 μg/L

TRGS 907 (DE):

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**

Only if additional recommendations in test instruction or packing insert.

8.2.2

Yes, gloves according EN 374, consist of natural latex, butylrubber, viton or nitril (f.ex. Neopren® or Camatril from KCI). Use for short times all chemical resistent gloves (limited).

8.2.3 **Eve Protection**

Yes, safety glasses according EN 166 or face protection.

8.2.4 **Skin Protection**

Recommended, to avoid clothing damage, 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.

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MACHEREY-NAGEL



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9 **Physical and Chemical Properties**

9.1 **General Information**

5 mL COD 4000

Color: brown Appearance: liquid Odor: odorless

9.2 Important Health, Safety and Environmental Information

9.2.1 Safety relevant Basis Data

5 mL COD 4000

1,57 g/cm3 specific gravity:

9.2.2 **Relevant Properties of Substance Group**

9.3 **Additional Information**

Stability and Reactivity

10.1 Conditions to avoid

If on label. When indicated in packing insert.

10.2 Materials to avoid

Avoid contact with strong acides or alkalines.

10.3 **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.

Toxicological Information

Following information is valid for pure chemicals. Quantitative data on the toxicity of this product are not available.

5 mL COD 4000

Chemical: sulphuric acid CAS No.: 7664-93-9

LD50_{orl rat}: 2140 mg/kg LC50_{ihl mouse}: 320_{4h} mg/L LC50_{ihl rat}: 510 mg/m³

Chemical: potassium dichromate CAS No.: 7778-50-9

LD50_{orl rat}: 25 mg/kg LC_Low_{orl gpg}: 163 mg/kg LD50_{drm rat}: 1170 mg/kg

mercury(II) sulphate CAS No.: 7783-35-9 Chemical:

LD50_{orl rat}: 57 mg/kg LD50_{drm rat}: 625 mg/kg

Ecological Information

12.1 **Ecotoxicity**

Following information is valid for pure chemicals.

5 mL COD 4000

Chemical: sulphuric acid CAS No.: 7664-93-9

LC50_{fish/96h}: 16-29 mg/L 2924h mg/L

EC50_{daphnia/48h}: WGK (DE): WGK No.: 0182

8 B storage class (VCI):

Chemical: potassium dichromate CAS No.: 7778-50-9

WGK (DE): WGK No.: 0339

storage class (VCI): 6 1 B

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CAS No.: 7783-35-9

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> Chemical: mercury(II) sulphate

Bio Toxicity: LC₅₀: 0.5_{HgCl2/48h} mg/L WGK (DE): WGK No.: 0412

storage class (VCI): 6.1 B

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). Close container tightly.

Normally it is possible to empty small amounts (diluted!) into drains.

Dispose of contents/container to regulated waste treatment.

14 Transport Information

Proper shipping name: Chemical Kit UN No.: 3316 Packing group: II

Class: 9

Road transport

Classification code: Tunnel restriction code:

Limited Quantity: LQ 0 (acc. ADR 3.3.1/251: as LQ until max. 10 kg, see LQ in alternative transport name)

Air transport

PAX: 960 max. weight PAX: 10 KG CAO: 960 max. weight CAO:

Maritime transport

EmS: F-A, S-P Storage category: A

Alternative Transport Labelling follows:

Proper shipping name: Corrosive liquid, toxic, n.o.s. (sulphuric acid, mercury(II) sulphate solution)

UN No.: 2922 Packing group: II Class: 8 Additionally class: 6.1

Road transport

Classification code: CT1

Limited Quantity: LQ 22 Tunnel restriction code: Ε

Excepted Quantity:

Air transport

PAX: 851 max. weight PAX: CAO: 855 max. weight CAO: 30 L

Maritime transport

F-A, S-B Storage category: B

Maritime pollutant (5.2.1.6): (only if P >5 L|kg, or PP >0.5 L|kg per inner package)

Regulatory Information

International Regulations 15.1

According 1999/45/EC small amounts of harmful and highly flammable preparations/mixtures have partly/completely exemption from labelling (no symbols F, O, Xn, Xi, N and no R and S phrases are necessary) until 25-125 mL|g

According **GHS** inner packages must be only labelled with symbol(s) and product identificator. Harmful chemicals/mixtures with signalword: **WARNING** and highly flammable chemicals/mixtures must not be labelled with H and P phrases until 125 mL or 125 g.

5 mL COD 4000

Directive 1999/45/EC Symbols:





С

R 33-35-45-46

Danger of cumulative effects. Causes severe burns. May cause cancer. May cause heritable genetic damage.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Avoid exposure — obtain special instructions before use. This material and its container must be disposed of as hazardous waste.

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> GHS Directive 1272/2008/EC GHS Symbols:







GHS07

Signalword: DANGER

H314, H340, H350, EUH203

Causes severe skin burns and eye damage. May cause genetic defects. May cause cancer. Contains chromium (VI). May produce an allergic reaction.

P202, P260D, P280sh, P301+330+331, P303+361+353, P304+340, P305+351+338, P308+313, P405 Do not handle until all safety precautions have been read and understood. Do not breathe vapours. Wear protective gloves/eye protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Store locked up.

15.2 **National Regulations**

German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on May 2008 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 December 2009

Announcement BekGS 220 (DE), Safety Data Sheet, September 2007 updated May 2009

Other Information

16.1 List of R and H phrases

16.1.1 List of relevant R phrases

Harmful by inhalation. R20 R20/21/22

Harmful by inhalation, in contact with skin and if swallowed. R33 Danger of cumulative effects. R35 Causes severe burns.

R45 May cause cancer.

R46 May cause heritable genetic damage.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

16.1.2 List of relevant H phrases

H302 Harmful if swallowed H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H332 Harmful if inhaled. May cause genetic defects. H340 H350 May cause cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

EUH203 Contains chromium (VI). May produce an allergic reaction.

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.

Recommended Restriction on Use 16.3

Only for professional user

Look about employee restrictions for young people (f. ex. DE § 22 JArbSchG)!

Look about employee restrictions for pregnant women and nursing women (f.ex. DE §§ 4 und 5 MuSchRiV)!

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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from use of or reliance upon this information. See terms and conditions at the end of our price lists for additional information.

16.5 Sources of Key Data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS TRGS 900, German engineering rules governing limits in air at work, updated May 2010 SUVA .CH, Limits in air at work 2009, revised on 01.2009

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work TRGS 905, German engineering rules governing carcinogens and mutagens, updated May 2008 KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

You find our current versions of MSDS in Internet: http://www.mn-net.com/MSDS

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