

Safety Data Sheet

according to Regulations REACh 1907/2006/EC

REF: 985020 NANOCOLOR COD 60 in salt water Page: 1/14 Date of issue: 26.09.2022 Printing date: 15.05.2024 Version: 2.2.2.19

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

1.1 **Product identifier**

> REF 985020

Product name NANOCOLOR COD 60 in salt water

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 3.85 mL CSB 60 salt water (R0) UFI: 6PUT-13RR-X20D-HT6F

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 Valencienner Str. 11, 52355 Düren, Germany

Phone: +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, https://www.ggiz-erfurt.de

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

SECTION 2: Hazard identification

2.0 Classification of the complete product according to Regulation (EC) 1272/2008



GHS05





GHS07





Signal word **DANGER**

Hazard identification	Hazard classes/categories	
H290	Met. Corr. 1	
H301	Acute Tox. 3 oral	
H311	Acute Tox. 3 derm.	
H314	Skin Corr. 1 B	
H317	Skin Sens. 1	
H373	STOT RE 2	
H411	Aquatic Chronic 2	

2.1 Classification of the substance or mixture according to Regulation (EC) 1272/2008

3.85 mL CSB 60 salt water (R0)











GHS05

GHS06

GHS07

GHS08

GHS09



MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11 52355 Düren · Germany

www.mn-net.com

DE Tel.: +49 24 21 969-0 info@mn-net.com

CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com

US Tel.: +1 888 321 62 24 sales-us@mn-net.com

Signal word



Safety Data Sheet

according to Regulations REACh 1907/2006/EC

REF: 985020 NANOCOLOR COD 60 in salt water Page: 2/14 Printing date: 15.05.2024 Date of issue: 26.09.2022 Version: 2.2.2.19

Signal word	DANGER	
Hazard identification	Hazard classes/categories	
H290	Met. Corr. 1	
H301	Acute Tox. 3 oral	
H311	Acute Tox. 3 derm.	
H314	Skin Corr. 1 B	
H315	Skin Irrit. 2	
H317	Skin Sens. 1	
H319	Eye Irrit. 2	
H373	STOT RE 2	
H411	Aquatic Chronic 2	
H412	Aquatic Chronic 3	

DANGER

List of H phrases: see section 16.2

2.2 Label elements according regulation (EC) 1272/2008

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. 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).

3.85 mL CSB 60 salt water (R0)









GHS05 GHS06

GHS08

Signal word: DANGER H301, H311, H314, H317

Toxic if swallowed. Toxic in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin

P260sh, P264, P270, P271, P280sh, P301+310, P303+361+353, P305+351+338, P330, P333+313, P361+364, P405, P501

Do not breathe dust/vapours. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.Use only outdoors or in a well-ventilated area.Wear protective gloves/eye protection.IF SWALLOWED: Immediately call a POISON CENTER/ doctor.IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Rinse mouth. If skin irritation or rash occurs: Get medical advice/attention. Take off immediately all contaminated clothing and wash it before reuse. Store locked up. Dispose of contents/container to regulated waste treatment.

Label elements of the complete product









GHS05

GHS06

GHS08

GHS09

Signal word: DANGER H301, H311, H314, H317

Toxic if swallowed. Toxic in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin

P260sh, P264, P270, P271, P280sh, P301+310, P303+361+353, P305+351+338, P330, P333+313, P361+364, P405, P501

Do not breathe dust/vapours. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/eye protection.IF SWALLOWED: Immediately call a POISON CENTER/ doctor.IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Rinse mouth. If skin irritation or rash occurs: Get medical advice/attention. Take off immediately all contaminated clothing and wash it before reuse. Store locked up. Dispose of contents/container to regulated waste treatment.



MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11 52355 Düren · Germany

www.mn-net.com

DE Tel.: +49 24 21 969-0 info@mn-net.com CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com

FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com US Tel.: +1 888 321 62 24 sales-us@mn-net.com



Safety Data Sheet

according to Regulations REACh 1907/2006/EC

 REF: 985020
 NANOCOLOR COD 60 in salt water
 Page: 3/14

 Printing date: 15.05.2024
 Date of issue: 26.09.2022
 Version: 2.2.2.19

2.3 Other hazards

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.

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.

Cause severe after oral intake, skin contact, impairments of health or can lead to death even when only ingested in small quantities. 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. Can accumulate within the body.

The risk assessment of the tube tests showed no risk H331 "Toxic if inhaled." at the application.

Information pertaining to particular risks to the environment

Should not be released into the environment.

PBT: not applicable vPvB: not applicable

Possible endocrine disrupting effects

no data available

SECTION 3: Composition / information on ingredients

3.1 Substances or 3.2 Mixtures

3.85 mL CSB 60 salt water (R0)

Substance name: silver sulfate CAS No.: silver sulfate

Substance rating: H318, Eye Dam. 1, H400, Aquatic Acute 1, H410, Aquatic Chronic 2

Formula: Ag 2 SO 4
Pseudonym (de): Disilber(I)-sulfat
REACH Reg. No.: 01-2119918297-31-xxxx
EC No.: 233-653-7

=C No.: 233-653-7

Concentration: 0,1 - <1 % Correlation factor: x 0.69 (= %Ag)
The classification refers to the weight percentage of the metal (according to CLP regulation 2008/1272/EG Annex VI, 1.1.3.2 Note 1)

acc. CLP (GHS): The criteria for classification are not fulfilled.

Substance name: sulfuric acid CAS No.: sulfuric acid 7664-93-9

Substance rating: H314, Skin Corr. 1 B Formula: H $_2$ SO $_4$ (•H $_2$ O) REACH Reg. No.: 01-2119458838-20-xxxx

EC No.: 231-639-5 Indice No.: 016-020-00-8

Specific concentration limit: Eye Irrit. 2; H319: 5 % ≤ C < 15 % - Skin Irrit. 2; H315: 5 % ≤ C < 15 % - Skin Corr

1Å; H314 c ≥ 15%

Concentration: 51 - <65 %

acc. CLP (GHS): H314, Skin Corr. 1 B

Substance name: silver nitrate
CAS No.: 7761-88-8

Substance rating: H272, Ox. Liq. 2, H290, Met. Corr. 1, H314, Skin Corr. 1 B, H318, Eye Dam. 1, H400, Aquatic Acute

1, H410, Aquatic Chronic 1 Formula: AgNO 3

REACH Reg. No.: 01-2119513705-43-xxxx

EC No.: 231-853-9 Indice No.: 047-001-00-2 Concentration: 1 - < 3% Correlation factor: x = 0.635 (= %Ag) The classification refers to the weight percentage of the metal (according to CLP regulation 2008/1272/EG Annex VI, 1.1.3.2 Note 1)

The classification refers to the weight percentage of the metal (according to CLP regulation 2008/1272/EG Annex VI, 1.1.3.2 Note 1) acc. CLP (GHS): H290, Met. Corr. 1, H315, Skin Irrit. 2, H319, Eye Irrit. 2, H411, Aquatic Chronic 2



 MACHEREY-NAGEL GmbH & Co. KG
 DE
 Tel.: +49 24 21 969-0
 info@mn-net.com

 Valencienner Str. 11
 CH
 Tel.: +41 62 388 55 00
 sales-ch@mn-net.com

 52355 Düren · Germany
 FR
 Tel.: +33 388 68 22 68
 sales-fr@mn-net.com

 www.mn-net.com
 US
 Tel.: +1 888 321 62 24
 sales-us@mn-net.com



Safety Data Sheet

according to Regulations REACh 1907/2006/EC

REF: 985020 NANOCOLOR COD 60 in salt water Page: 4/14 Printing date: 15.05.2024 Date of issue: 26.09.2022 Version: 2.2.2.19

> potassium dichromate Substance name:

CAS No.: 7778-50-9

Substance rating: H272, Ox. Liq. 2, H301, Acute Tox. 3 oral, H312, Acute Tox. 4 derm., H314, Skin Corr. 1 B, H317, Skin Sens. 1, H318, Eye Dam. 1, H330, Acute Tox. 2 inh., H334, Resp. Sens. 1, H335, resp. irrit. STOT SE 3, H340, Muta. 1 B, H350, Carc. 1 A, H360FD, Repr. 1 B, H372, STOT RE 1, H400, Aquatic Acute 1, H410, Aquatic Chronic 1

K 2 Cr 2 O 7 Formula: Pseudonym (de): Kaliumbichromat REACH Reg. No.: 01-2119454792-32-0004

SVHC listed: < exempt for formulation+use acc. Art.56(3)+Q&A1030

024-002-00-6 EC No.: 231-906-6 Indice No.:

Specific concentration limit: STOT SE 3: H335 c ≥ 5%

Concentration: 0 - <0,1 % Correlation factor: x 0.79 (= %CrO 4)
The classification refers to the weight percentage of the metal (according to CLP regulation 2008/1272/EG Annex VI, 1.1.3.2 Note 1)

acc. CLP (GHS): H317, Skin Sens. 1

mercury(II) sulfate Substance name:

CAS No .: 7783-35-9

Substance rating: H300, Acute Tox. 2 oral, H310, Acute Tox. 1 derm., H330, Acute Tox. 2 inh., H373, STOT RE 2,

H400, Aquatic Acute 1, H410, Aquatic Chronic 1

Formula: HgSO₄

REACH Reg. No.: not necessary, amount <1 t/a

EC No.: 231-992-5 Indice No.: 080-004-00-7

Specific concentration limit: STOT RE 2 H373; c ≥ 0,1%

Concentration: 3 - <3,7 % Correlation factor: x 0.68 (= %Hg)
The classification refers to the weight percentage of the metal (according to CLP regulation 2008/1272/EG Annex VI, 1.1.3.2 Note 1)

acc. CLP (GHS): H301, Acute Tox. 3 oral, H311, Acute Tox. 3 derm., H373, STOT RE 2, H412, Aquatic Chronic 3

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 16.2.

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. Remove contaminated clothing. Show product package, packing insert and this material safety data sheet to the doctor.

4.1.1 **After SKIN Contact**

Causing allergies. 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.

After INHALATION of vapours 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. ---

414

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 Most important symptoms and effects, both acute and delayed

Chronic effects: Potassium dichromate: Repeated contact, even in small amounts, can lead to sensitization. Rapid penetration and destruction of the skin. Especially in the heated form.

Causes severe skin burns and eye damage.

Can accumulate in the body.

4.3 Indication of any immediate medical attention and special treatment needed

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.



MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11

52355 Düren · Germany www.mn-net.com

DE Tel.: +49 24 21 969-0 info@mn-net.com Tel.: +41 62 388 55 00 sales-ch@mn-net.com

FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com US Tel.: +1 888 321 62 24 sales-us@mn-net.com



Safety Data Sheet

according to Regulations REACh 1907/2006/EC

 REF: 985020
 NANOCOLOR COD 60 in salt water
 Page: 5/14

 Printing date: 15.05.2024
 Date of issue: 26.09.2022
 Version: 2.2.2.19

TOXIFICATION: Treat symptomatically. Secure the breathing, heart and circulatory function. Remove the substance quickly from the body. Mechanically induce vomiting or ensure the patient eats medicinal charcoal compressed tablets or drinks aluminium oxide drug suspensions. In order to ensure rapid passage through the colon (administer 2 tablespoons of dissolved Glauber's salt). Alleviation of pain, if necessary sedation. Shock treatment. Administer a prophylaxis to counter pulmonary oedema. Inform patient respectively further measures and the possibility of long-term damages. ---

SECTION 5: Firefighting measures

5.1 Extinguishing media

5.1.1 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.

5.1.2 Unsuitable extinguishing media

no data available

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, respectively face 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

Should not be released into the environment.

PBT: not applicable vPvB: not applicable

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 5.4,7,8 and 13

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

Safe storage is guaranteed in the original packaging from MACHEREY-NAGEL. Products which are also classified as toxic must be kept under lock and key. Storage class (German chemical industry): see chapter 12.1

Storage class (VCI): 5.1B Water hazard class (DE): 3

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.



MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11

52355 Düren · Germany www.mn-net.com

DE Tel.: +49 24 21 969-0 info@mn-net.com

CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com
FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com

US Tel.: +1 888 321 62 24 sales-us@mn-net.com



Safety Data Sheet

according to Regulations REACh 1907/2006/EC

REF: 985020 NANOCOLOR COD 60 in salt water Page: 6/14 Printing date: 15.05.2024 Date of issue: 26.09.2022 Version: 2.2.2.19

7.3 Specific end use(s)

Product for analytical use.

SECTION 8: Exposure controls /personal protection

8.1 Control parameters

3.85 mL CSB 60 salt water (R0)

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

EU value: [Hg] 0.02 e mg/m³ [Hg] 0,02 E mg/m³ TRGS 900 (DE): E/e respirable

Short-term exposure factor: 8 (II), H, Sh skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

[Hg][MAK] 0,02 e/[STEL] 0,16 e mg/m³ SUVA(CH) MAK value:

SUVA(CH) BAT value: [Krea U/d] 35 µg/L [U/a Kreatinin] 25 µg/g B blood, U urine, a no limitation, b end of exposition or shift TRGS 903 (DE):

NIOSH:

: [Hg Vapor: TWA _{skin}] 0.05; other 0.1 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: [TWA] 0.1 mg/m³

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

[inh] 0.01 mg/m³ DNEL = Derived No-Effect Level (for workers) DNEL:

[CrVI] (0,05 E ausgesetzt) mg/m³ E/e respirable TRGS 900 (DE):

Short-term exposure factor: (4), Hskin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

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

NIOSH: NTP Report on Carcinogens (RoC) List Yes (Chromium VI - Known to be a human carcinogen); TWA

8h 0.0002 _{CrO3} 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: [CrO3][TWA] 0.005 mg/m³

silver sulfate CAS No.: 10294-26-5 Chemical:

DNEL: no data DNEL = Derived No-Effect Level (for workers) $\begin{array}{ccc} PNEC & \text{(fresh water)} : & 0.04 \ \mu\text{g/L} \\ & PNEC = Predicted \ No \ Effected \ Concentration \end{array}$

[Ag] 0.01e mg/m³ EU value: [Ag] 0,01 E mg/m³ E/e respirable TRGS 900 (DE):

Short-term exposure factor:

erm exposure factor: 2 (I) skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

[TWA] 0.01 mg/m³ NIOSH

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

[TWA] 0.01 mg/m³ OSHA:

Chemical: silver nitrate CAS No.: 7761-88-8

EU value: 0.01 Ag e mg/m3 0.01 Ag E mg/m³ E/e respirable TRGS 900 (DE):

Short-term exposure factor: 2 (I)

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 0,01 e mg/m³ TWA 0.01 mg/m³ NIOSH:

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

OSHA: TWA 0.01 mg/m³

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

DNEL: [inh] 50 µg/m3 DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): 2.5 µg/L PNEC = Predicted No Effected Concentration EU value: 0.1 e mg/m³ TRGS 900 (DE): 0.1 E ma/m³

E/e respirable



MACHEREY-NAGEL GmbH & Co. KG

DE Tel.: +49 24 21 969-0 info@mn-net.com Valencienner Str. 11 Tel.: +41 62 388 55 00 sales-ch@mn-net.com 52355 Düren · Germany FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com www.mn-net.com US Tel.: +1 888 321 62 24 sales-us@mn-net.com



Safety Data Sheet

according to Regulations REACh 1907/2006/EC

REF: 985020 NANOCOLOR COD 60 in salt water Page: 7/14 Printing date: 15.05.2024 Date of issue: 26.09.2022 Version: 2.2.2.19

Short-term exposure factor: 1 (I), Y skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 0,1 e mg/m³

: NTP Report on Carcinogens (RoC) List Yes (Known to be a human carcinogen); [TWA] 1 mg/m³ [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period NIOSH:

OSHA: [TWA] 1 mg/m³

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.

Skin protection / Hand protection 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 or face protection.

Skin protection 8.2.4

Recommended to avoid clothing damage, and 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.

8.2.6 Thermal hazards

no data available

8.3 Limitation and monitoring of environmental exposure

Do not release product into environment.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties 9.1

3.85 mL CSB 60 salt water (R0)

a) State of aggregation:

yellow b) Colour: c) Odor: odorless d) Melting point: no data available no data available e) Boiling point: f) Flammability: no data available g) Explosive limits (lower / upper): h) Flash point: no data available no data available i) Flashing temperature: no data available j) Decomposition temperature: no data available k) pH value: I) Kinematic viscosity: no data available m) Solubility in water: 0-100 % n) Dispersion coefficient (K o/w): no data available o) Vapour pressure (20°C): no data available p) Specific gravity: 1.8 a/cm³

9.2 Other information

Information on physical hazard classes 9.2.1

q) Relative vapour density (air=1):

no data available

922 Other safety-related parameters

r) Particle size:



Software: M2 V 6.1.5.0

MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11

52355 Düren · Germany www.mn-net.com

DE Tel.: +49 24 21 969-0 info@mn-net.com

no data available

no data available

CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com

US Tel.: +1 888 321 62 24 sales-us@mn-net.com



Safety Data Sheet

according to Regulations REACh 1907/2006/EC

REF: 985020 NANOCOLOR COD 60 in salt water Page: 8/14 Printing date: 15.05.2024 Date of issue: 26.09.2022 Version: 2.2.2.19

No data is available for the other parameters for the mixtures, since no registration and no chemical safety report is required.

Substances are highly corrosive.

SECTION 10: Stability and reactivity

10.1 Reactivity

Strong CORROSIVE, no further data available.

10.2 **Chemical stability**

no known instability.

10.3 Possibility of hazardous reactions

Can react violently with organic material. No further data available.

10.4 Conditions to avoid

Observe the storage temperature printed on it. No more required.

10.5 Incompatible materials

no additional data available

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 the hazard classes according regulation (EC) 1272/2008

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

3.85 mL CSB 60 salt water (R0)

Chemical: mercury(II) sulfate CAS No.: 7783-35-9 TSCA Inventory: listed California Proposition 65 List: listed developmental

inhalation, skin absorption, ingestion, skin and/or eye contact Exposure Routes: Target Organs: Eyes, skin, respiratory system, central nervous system, kidneys

irritation eyes, skin; cough, chest pain, dyspnea (breathing difficulty), bronchitis, pneumonitis; tremor, Symptoms:

insomnia, irritability, indecision, headac

Australia NICNAS: Canada CEPA 1999: yes (mercury compound - Item 8.) not listed

PRTR: ≥1,0%Hg class I, Japan PDSCL: Poisonous substance Japan CSCL/PRTR:

listed ≥0,3%/≥0,1%, Article 57-2 (SDS required) Japan ISHL: South Korea TCCA: not listed

Korea Exist.Chem.Inventory: KE-23132, Toxic 97-1-140

LD50 orl rat: 57 mg/kg

Acute Effects: Cause severe after oral intake, skin contact, impairments of health or can lead to death even when only ingested in

small quantities.

Chronic Effects: May cause damage to organs through prolonged or repeated exposure.

TRGS 907 (DE):

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

TSCA Inventory: listed California Proposition 65 List: listed cancer, developmental, female, male

ACGIH:

Exposure Routes: inhalation, ingestion, skin and/or eye contact

Target Organs: Blood, respiratory system, liver, kidneys, eyes, skin, [lung cancer]

Symptoms: irritation respiratory system; nasal septum perforation; liver, kidney damage; leukocytosis (increased

blood leukocytes), leukopenia (reduced blood le

Japan CSCL/PRTR: PRTR: ≥0,1% Cr specific class I, Japan PDSCL: Deleterious substance

Japan ISHL: listed ≥0,1%/≥0,1%, Article 57-2 (SDS required) yes, Restricted Chemical South Korea TCCA:

0,094 mg/L/4H

Korea Exist.Chem.Inventory: not listed LD50 orl rat: 25 mg/kg LC_Low orl gpg: 163 mg/kg

LC50 ihl rat: Acute Effects: 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.

EU carcinogen: carc. 1B, mutag. 1B, repr. 1B

TRGS 905 (DE): K2 TRGS 907 (DE): Sh



MACHEREY-NAGEL GmbH & Co. KG DE Tel.: +49 24 21 969-0 info@mn-net.com Valencienner Str. 11 CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com 52355 Düren · Germany FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com

www.mn-net.com US Tel.: +1 888 321 62 24 sales-us@mn-net.com



Safety Data Sheet

according to Regulations REACh 1907/2006/EC

 REF: 985020
 NANOCOLOR COD 60 in salt water
 Page: 9/14

 Printing date: 15.05.2024
 Date of issue: 26.09.2022
 Version: 2.2.2.19

Chemical: silver sulfate CAS No.: 10294-26-5

TSCA Inventory: listed

Exposure Routes: inhalation, ingestion, skin and/or eye contact

Target Organs: Nasal septum, skin, eyes

Symptoms: Blue-gray eyes, nasal septum, throat, skin; irritation, ulceration skin; gastrointestinal disturbance

Japan CSCL/PRTR: PRTR: ≥1,0%Ag class I, Japan PDSCL: Deleterious substance

Japan ISHL: listed ≥1,0%/≥0,1%

Korea Exist.Chem.Inventory: KE-12273, >25% Toxic 97-1-92

LD50 orl rat: 2000-5110 mg/kg

Chemical: silver nitrate CAS No.: 7761-88-8

TSCA Inventory: listed

Exposure Routes: inhalation, ingestion, skin and/or eye contact

Target Organs: Nasal septum, skin, eyes

Symptoms: Blue-gray eyes, nasal septum, throat, skin; irritation, ulceration skin; gastrointestinal disturbance

Japan CSCL/PRTR: PRTR: ≥1,0%Ag class I, Japan PDSCL: Deleterious substance

Japan ISHL: listed ≥1,0%/≥0,1%

Korea Exist.Chem.Inventory: KE-31281, >25% Toxic 97-1-92

LD50 _{orl rat}: 1173 mg/kg

TRGS 905 (DE): R F D

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

TSCA Inventory: listed California Proposition 65 List: not listed

ACGIH: 1 ppm

Exposure Routes: inhalation, ingestion, skin and/or eye contact Target Organs: Eyes, skin, respiratory system, teeth

Symptoms: irritation eyes, skin, nose, throat; pulmonary edema, bronchitis; emphysema; conjunctivitis; stomatis;

dental erosion; eye, skin burns; dermatitis

Australia NICNAS: not listed Canada CEPA 1999: DSL Yes

Japan CSCL/PRTR: not listed, Japan PDSCL: Deleterious Substance Japan ISHL: not listed ≥1,0%/≥1,0%, Article 57-2 (SDS required)

South Korea TCCA: Accident Precaution Chemical Yes

Korea Exist.Chem.Inventory: KE-32570, >10% Toxic 97-1-405, Acc. Precaution Chem.

LD50 _{orl rat}: 2140 mg/kg LC50 _{ihl mus}: 0,85 mg/L/4H

TRGS 905 (DE): Kat 4

11.2 Other hazards

Possible endocrine disrupting effects

no data available

Other information

no additional data available

SECTION 12: Ecological information

12.1 Toxicity

Following information is valid for pure substances.

3.85 mL CSB 60 salt water (R0)

Substance name: mercury(II) sulfate CAS-Nr.: 7783-35-9

Harmful to aquatic life with long lasting effects. Do not release into the environment.

Environmentally hazardous substances/mixtures do not have to be labeled with P-phrases up to 125 mL (EU 1272/2008 Annex I

Paragraph 1.5.2).

Bio Toxicity: LC $_{50}$: 0.5 $_{\rm HgCl2/48h}$ mg/L Water hazard class (DE): 3 WGK No.: 0412

Storage class (VCI): 6.1 B

Substance name: potassium dichromate CAS-Nr.: 7778-50-9

LC50 fish/96h: 26.13 mg/L EC50 daphnia/48h: 0.77 mg/L

Water hazard class (DE): 3 WGK No.: 339

Storage class (VCI): 6.1 B



 MACHEREY-NAGEL GmbH & Co. KG
 DE
 Tel.: +49 24 21 969-0
 info@mn-net.com

 Valencienner Str. 11
 CH
 Tel.: +41 62 388 55 00
 sales-ch@mn-net.com

 52355 Düren · Germany
 FR
 Tel.: +33 388 68 22 68
 sales-fr@mn-net.com

www.mn-net.com US Tel.: +1 888 321 62 24 sales-us@mn-net.com



Safety Data Sheet

according to Regulations REACh 1907/2006/EC

REF: 985020 NANOCOLOR COD 60 in salt water Page: 10/14 Printing date: 15.05.2024 Date of issue: 26.09.2022 Version: 2.2.2.19

> CAS-Nr.: 10294-26-5 Substance name: silver sulfate

PNEC = Predicted No Effected Concentration = concentration at which no effect on the environment is expected

LC50 daphnia magna/48h: $0.22 \mu g/L$ LC50 fish/96h [4d] 1.2 µg/L EC10 pseudomonas putita/16h [24h] 0.41-0.54 µg/L

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

CAS-Nr.: 7761-88-8 silver nitrate

Toxic to aquatic life with long lasting effects. Do not release into the environment.

Environmentally hazardous substances/mixtures up to 125 mL do not have to be labeled with H and P statements (EU 1272/2008

Annex I Paragraph 1.5.2).

Water hazard class (DE): WGK No.: 0185

Storage class (VCI):

Substance name: sulfuric acid CAS-Nr.: 7664-93-9

Do not release into the environment.

PNEC (fresh water): 2.5 µg/L
PNEC = Predicted No Effected Concentration = concentration at which no effect on the environment is expected

LC50 fish/96h: [NOEC, 65d] 25 µg/L EC50 daphnia/48h: 100 mg/L [72h] 100 mg/L EC10 pseudomonas putita/16h

WGK No.: 0182 Water hazard class (DE):

Storage class (VCI):

12.2 Persistence and degradability

12.3 Bioaccumulative potential

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 **Endocrine disrupting properties**

no data available

12.7 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). Close container tightly.

13.1 Waste treatment methods

Not necessary, see above.

SECTION 14: Transport information

www.mn-net.com

14.1. UN number:

14.2. UN proper shipping name: Chemical Kit

14.3. Class: 9

14.4. Packing group: Road transport ADR

Classification code: M11 Tunnel restriction code:

acc. ADR 3.3.1/251: see LQ in Alternative declaration for transportation Limited Quantity:

Air transport IATA DGR

PAX. 960 Limited Quantity: max. quantity PAX: 10 KG CAO: 960 max. quantity CAO: 10 KG

US Tel.: +1 888 321 62 24 sales-us@mn-net.com

Maritime transport IMDG

F-A, S-P Staukategorie: EmS:



MACHEREY-NAGEL GmbH & Co. KG DE Tel.: +49 24 21 969-0 info@mn-net.com CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com Valencienner Str. 11 52355 Düren · Germany FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com



Safety Data Sheet

according to Regulations REACh 1907/2006/EC

REF: 985020 NANOCOLOR COD 60 in salt water Page: 11/14 Printing date: 15.05.2024 Date of issue: 26.09.2022 Version: 2.2.2.19

Ε

В

Or use Alternative declaration for transportation:

UN No.: (see below) class 8 II, **Excepted Quantities** (≤30 mL/∑≤500 mL) = ADR/ IATA E2

14.1 UN number:

14.2 UN proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s. (silver nitrate, sulfuric acid solution)

14.3 Class: 8

14.4 Packing group: Road transport ADR

Classification code:

C1 Limited Quantity: 11 Tunnel restriction code:

Excepted Quantity:

Air transport IATA DGR

Limited Quantity: PAX: 851 max. quantity PAX: CAO: 855 max. quantity CAO: 30 I

Excepted Quantity: E 2

Maritime transport IMDG

EmS: F-A, S-B Staukategorie:

Special instructions: 274

14.5 **Environmental hazards**

none, contains only small quantities of hazardous substances, contains only small amounts of these substances

14.6 Special precautions for user

not necessary

14.7 Carriage in bulk by sea in accordance with IMO instruments

Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Chemicals Prohibition Ordinance - (DE: ChemVerbotsV), aktualisiert Jan 2017

Dangerous Substances Protection Act (DE: Chemikaliengesetz - ChemG), Aug 2013, Stand: Okt 2020

Ordinance on protection against dangerous substances (E: Gefahrstoffverordnung - GefStoffV), Nov 2010, Stand: Mrz 2017

TRGS 201, Classification and labeling of activities involving hazardous substances, Feb 2017

TRGS 220, National aspects when preparing safety data sheets, Jan 2017

TRGS 400, Risk assessment for activities involving hazardous substances, Jul 2017

TRGS 401, Skin contact hazard - identification, assessment, action, Jun 2008, status: Feb 2011

BekGS 408, Application of the GefStoffV and the TRGS with the entry into force of the CLP regulation, December 2009, status: Jan 2012

TRGS 500, Protective measures, Mai 2008

TRGS 510, Storage of hazardous substances in portable containers from March 2013, status: Oct 2015

Chapter 4, Measures when storing hazardous substances up to 50 kg (small quantity regulation)

Wasserhaushaltsgesetz - WHG, Section 3 Handling substances hazardous to water, Jul 2009, status: Aug 2016

MN leaflet/instructions for use, also at www.mn-net.com

If necessary, observe other country-specific regulations.

15.2 Chemical safety assessment

not necessary for these small amounts

SECTION 16: Other information

16.1 Changes compared to the last version

Between versions 2.2.2.19 and 2.2.2.2 following changes were applied: - 17 substance data corrected

16.2 List of H and P phrases

16.2.1 List of relevant H phrases

Between versions 2.2.2.19 and 2.2.2.2 following changes were applied: - 17 substance data corrected

H290 May be corrosive to metals.



MACHEREY-NAGEL GmbH & Co. KG

Valencienner Str. 11 52355 Düren · Germany

www.mn-net.com

DE Tel.: +49 24 21 969-0 info@mn-net.com

CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com

US Tel.: +1 888 321 62 24 sales-us@mn-net.com



Safety Data Sheet

according to Regulations REACh 1907/2006/EC

Printing date: 15.05.2024 Date of issue: 26.09.2022 Version: 2.2.	REF: 985020	NANOCOLOR COD 60 in salt water	Page: 12/14
	Printing date: 15.05.2024	Date of issue: 26.09.2022	Version: 2.2.2.19
T 1 15 11 11 11 11 11 11 11 11 11 11 11 1			

H301 Toxic if swallowed H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

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

Toxic to aquatic life with long lasting effects. H411 H412 Harmful to aquatic life with long lasting effects.

16.2.2 List of relevant P phrases

Do not breathe dust/vapours. P260sh

P264 Wash hands thoroughly after handling. P270

Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280sh Wear protective gloves/eye protection.

IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P301+310

P303+361+353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

P330 Rinse mouth

P333+313 If skin irritation or rash occurs: Get medical advice/attention.

P361+364 Take off immediately all contaminated clothing and wash it before reuse.

P405

P501 Dispose of contents/container to regulated waste treatment.

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 Sources of key data

KÜHN, BIRETT, Leaflets on hazardous materials, 2021

Directive 1999/92/EG Minimum requirements to improve the safety and health protection of workers at risk from potentially explosive atmospheres

SUVA .CH, limit values in the air at work 2009, revised on 01/2009

Regulation 790/2009/EU, adaptation of Regulation 1272/2008/EU to technical and scientific progress (1st ATP)

Regulation 453/2010/EU, adaptation of the REACH regulation 1907/2006/EG

TRGS 907, German technical rules for listing substances and causes of sensitization, updated November 2011 Regulation

487/2013/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (4th ATP)

Regulation 1221/2015/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (7th ATP)

Regulation 776/2017/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (10th ATP)

Regulation 669/2018/EU, adaptation of Regulation 1272/2008/EC to technical and scientific progressText (11th ATP)

Regulation 1480/2018/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (13th ATP)

Regulation 521/2019/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (12th ATP)

TRGS 900, German rules of technology on limit values in the air at work, as of 03/2019

Regulation 217/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (14th ATP)

Regulation 878/2020/EU, adaptation of Annex II of the REACH regulation 1907/2006/EG

Regulation 1182/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (15th ATP)

Regulation 643/2021/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (16th ATP) Regulation 849/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (17th ATP)

Regulation 692/2022/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (18th ATP)

revisions/updates

Reason for revision: 2014-02 Corrected structure of the sections according to Regulation 453/2010/EU, if necessary

2014-04 adjustment according Regulation 487/2013/EU 2016-03 adjustment according Regulation 1221/2015/EU

2017-11 adjustment according the ECHA registration dossier 2022-11 adjustment according Regulation 878/2020/EU

16.5 **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.

MACHEREY-NAGEL GmbH & Co. KG makes NO REPRESENTATIONS or WARRANTIES, either expressed or implied, including



MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11

52355 Düren · Germany www.mn-net.com

DE Tel.: +49 24 21 969-0 info@mn-net.com CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com

FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com US Tel.: +1 888 321 62 24 sales-us@mn-net.com



Safety Data Sheet

according to Regulations REACh 1907/2006/EC

REF: 985020 NANOCOLOR COD 60 in salt water Page: 13/14 Printing date: 15.05.2024 Date of issue: 26.09.2022 Version: 2.2.2.19

without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly MACHEREY-NAGEL GmbH & Co. KG will not be responsible for damages resulting from use of or reliance upon this information. See terms and conditions at the end of our price lists for additional information.

16.6 Legend / Abbreviations

according

ADR: Convention concerning the International Carriage of Dangerous Goods by Road

Act: acute

BAT: biological workplace tolerance value

CAO: Cargo Aircraft Only

Carc: carcinogen

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging regulation

CMR: carcinogen, mutagen, reproduction toxic

Corr: corrosive

COD: chemical oxigen demand

CSCL: Chemical Substance Control Law (Jp)

Dam: damage

Derived No-Effect Level (for workers) DNEL:

derm: dermal dog: dog

EC10: Concentration causing a toxic effect in 10% of the test organisms

EC: **European Community**

EC-Nr: Substance number of the EC substance inventory Guide to accident management measures on ships EmS:

European Union EU: fish: fish (not spezified)

GHS: Global Harmonized System of Classification and Labeling of Chemicals

guinea pig

gpg: ICAO: International Civil Aviation Organization

ihl. inhaled

IMDG: International Maritime Dangerous Goods Code

intrav: intravenous intraperitonaeal ipt:

İSHL: Industrial Safety and Health Law (Jp)

LC50: letale concentration 50% LD50: letale dosis 50% leuciscus idus: fisch, ide, orfe MAK: maximum workplace concentration

Met: Metall mus. mouse Muta: mutagen

NIOSH: National Institute for Occupational Safety and Health (US)

Non-rapidly degradable NRD:

onchorhynchus mykiss: fish, rainbow trout

orl: oral OSHA:

Occupational Safety and Health Administration PAX: transport on passenger planes allowed PBT: persistent, bioaccumulating, toxic substance

pH: pH value

pimephales promelas: fish, fathead minnow PNEC: PROC 15: Predicted No Effected Concentration Process category 'for laboratory use'

PRTR: Law for PRTR and Promotion of Chemical Management (Jp)

PVC: polyvinyl chloride quail: bird, quail rat. rat rabbit rbt:

RD: rapidly degradable

RE:

REACh: Registration, Evaluation, Authorisation and Restriction of Chemicals

item number, reference number REF:

Reg.No.: rRegistration number Repr: harmful to reproduction

Resp: respiratory

RIP: **REACH Implementations Projects**

sub cutan scu: safety data sheet SDS: Sens: sensitisation



Software: M2 V 6.1.5.0

MACHEREY-NAGEL GmbH & Co. KG

Valencienner Str. 11 52355 Düren · Germany www.mn-net.com

DE Tel.: +49 24 21 969-0 info@mn-net.com CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com

FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com US Tel.: +1 888 321 62 24 sales-us@mn-net.com



Safety Data Sheet

according to Regulations REACh 1907/2006/EC

NANOCOLOR COD 60 in salt water REF: 985020 Page: 14/14 Printing date: 15.05.2024 Date of issue: 26.09.2022 Version: 2.2.2.19

STEL: short term exposure limit Specific Target Organ Toxicity STOT: SVHC: Substance of Very High Concern

t/a: tons per year TCCA:

Toxic Chemicals Control Act (S. Korea) Tox: TSCA: toxic

The Toxic Substances Control Act (US) TWA: time weighted average TRGS: technical regulations (DE)

vPvB: very persistent, very bioaccumulating substance

16.7 Training advice

Regular safety training. 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.



MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11 52355 Düren · Germany

www.mn-net.com

DE Tel.: +49 24 21 969-0 info@mn-net.com CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com

US Tel.: +1 888 321 62 24 sales-us@mn-net.com