MACHEREY-NAGEI



Safety Data Sheet

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

REF: 985033	NANOCOLOR COD 300	Page: 1/10
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product ident	tifier
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REF Product name 985033 NANOCOLOR COD 300

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 4 mL COD 300 (R0)

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 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

2.1 Classification of the substance or mixture

4 mL COD 300 (R0)

	GHS05	GHS07	GHS08
Signal word	DANGER		
Hazard identification	Hazard cl	asses/cate	egories
	Acute Tox. 4 oral		
H302	Acute Tox	. 4 oral	
H312	Acute Tox	. 4 derm.	
H312 H314	Acute Tox Skin Corr.	. 4 derm. 1A	
H312 H314 H317	Acute Tox Skin Corr. Skin Sens	4 derm. 1A . 1	
H312 H314 H317 H332	Acute Tox Skin Corr. Skin Sens Acute Tox	4 derm. 1A . 1 . 1 . 4 inh.	
H312 H314 H317	Acute Tox Skin Corr. Skin Sens	4 derm. 1A 14 4 inh. 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.

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ISO 9001	

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GHS05 GHS07 GHS08

Signal word: DANGER

H314, H317, H412

Causes severe skin burns and eye damage. May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.

P260sh, P280sh, P303+361+353, P305+351+338, P310

Do not breathe dust/vapours. Wear protective gloves/eye protection. 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. Immediately call a POISON CENTER/doctor.

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 after oral intake, inhalation of vapours/dust, 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

Harmful to aquatic life with long lasting effects. Avoid contact of substance/mixture to environment.

PBT: not applicable

vPvB: not applicable

Other hazards

SECTION 3: Composition/information on ingredients

3.1 Substances or 3.2 Mixtures

4 mL COD 300 (R0) CAS No.: 10294-26-5 Chemical: silver sulfate H318, Eye Dam. 1, H400, Aquatic Acute 1, H410, Aquatic Chronic 1 Classification. Formula: Ag₂SO₄ Pseudonym: disilver(1+) sulfate **TSCA** Inventory: listed REACH Reg. No.: 01-2119918297-31-xxxx EC No.: 233-653-7 RTECS not listed KE No .: KE-12273, >25% Toxic 97-1-92 Concentration: 0.1 - <1 % Correlation factor: x 0.69 (= %Ag) The classification refers to weight percent of the metal (according to CLP Regulation 2008/1272/EC Annex VI, 1.1.3.2 Note 1) acc. CLP (GHS): The criteria for classification are not fulfilled. Chemical: sulfuric acid CAS No.: 7664-93-9 Classification: H314, Skin Corr. 1B H₂ SO₄ (•H₂ O) Formula: **TSCA** Inventory: listed REACH Reg. No.: 01-2119458838-20-xxxx EC No.: 231-639-5 Indice No.: 016-020-00-8 RTECS: WS5600000 KE No .: KE-32570, >10% Toxic 97-1-405, Acc. Precaution Chem. Concentration: 80 - <98 % H314, Skin Corr. 1B acc. CLP (GHS):



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Classification: H272, Ox. Liq. 2, H301, Acute Tox. 3 oral, H312, Acute Tox. 4 dern	
Classification: H272, Ox. Liq. 2, H301, Acute Tox. 3 oral, H312, Acute Tox. 4 dem	n., H314, Skin Corr. 1B, H317,
Classification: H272, Ox. Liq. 2, H301, Acute Tox. 3 oral, H312, Acute Tox. 4 dem	n., H314, Skin Corr. 1B, H317,
Skin Sens. 1, H330, Acute Tox. 2 inh., H334, Resp. Sens. 1, H340, Muta. 1B, H350, Carc	
STOT RE 1, H410, Aquatic Chronic 1	
Formula: $K_2 Cr_2 O_7$	
TSCA Inventory: listed	
REACH Reg. No.: 01-2119454792-32-0004	
SVHC listed: > exempt for formulation+use acc.Art56(3)+Q&A1030	
EC No.: 231-906-6 Indice No.: 024-00	2-00-6
RTECS: HX7680000 MFCD: 000113	67
KE No.: not listed	
Concentration: 0.00126 - <0.1 % Correlation factor: x 0.79 (= %	
The classification refers to weight percent of the metal (according to CLP Regulation 2008/1272/EC Annex VI, 1	.1.3.2 Note 1)
acc. CLP (GHS): H317, Skin Sens. 1	
Chemical: mercury(II) sulfate CAS No	o.: 7783-35-9
Classification: H300, Acute Tox. 2 oral, H310, Acute Tox. 2 derm., H330, Acute To	ox. 2 inh., H373, STOT RE 2,
H400, Aquatic Acute 1, H410, Aquatic Chronic 1	
Formula: HgSO ₄	
Pseudonym: mercuric sulfate	
TSCA Inventory: listed	
REACH Reg. No.: not necessary, amount <1 t/a	
EC No.: 231-992-5 Indice No.: 080-004	4-00-7
RTECS: 0X0500000	
KE No.: KE-23132, Toxic 97-1-140	
Concentration: 0.37 - <0.74 % Correlation factor: x 0.68 (= %	Hg)
The classification refers to weight percent of the metal (according to CLP Regulation 2008/1272/EC Annex VI, 1	
acc. CLP (GHS): H302, Acute Tox. 4 oral, H312, Acute Tox. 4 derm., H332, Acute To	ox. 4 inh., 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 16.1

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. 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 EYE Contact 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 vapours 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. --After ORAL Intake 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 Most important symptoms and effects, both acute and delayed

Potassium dichromate: May cause sensitization by skin contact, also in repeated contact of small amounts. Can accumulate within 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. 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, 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**

not necessary, contains only small amounts of these substances

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 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): 8B Water hazard class (DE): 3

7.2.1 Requirements for stock rooms and containers Keep original product packages tightly closed during handling and storage. Use inbreakable container for transport of glass bottles.

7.3 Specific end use(s)

Product for analytical use.

SECTION 8: Exposure controls/personal protection

8.1 **Control parameters**

4 mL COD 300 (R0) Chemical: silver sulfate CAS No.: 10294-26-5 DNEL no data DNEL = Derived No-Effect Level (for workers) PNEC (fresh water) : 0.04 µg/L PNEC = Predicted No Effected Concentration EU value: [Ag] 0.01e mg/m³ [Ag] 0,01 E mg/m³ E/e respirable TRGS 900 (DE): 2 (I) Short-term exposure factor: skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded NIOSH [TWA] 0.01 mg/m³ [TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period



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	OSHA:	[TWA] 0.01 mg/m³	
	Chemical: sulfuric acid DNEL: DNEL = Derived No-Eff	[inh] 50 µg/m³	.: 7664-93-9
	PNEC (fresh water) : PNEC = Predicted No E		
	EU value: TRGS 900 (DE):	0.1 e mg/m³ 0.1 E mg/m³ E/e respirable	
		r: 1 (I), Y piratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded
		0,1 e mg/m³ NTP Report on Carcinogens (RoC) List Yes (Known to be a human verage to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-	carcinogen); [TWA] 1 mg/m³ minute period
	OSHA:	[TWA] 1 mg/m³	
	Chemical: potassium o DNEL: DNEL = Derived No-Effe	[inh] 0.01 mg/m³	.: 7778-50-9
	TRGS 900 (DE):	[CrVI] (0,05 E _{ausgesetzt}) mg/m³ E/e respirable	
		piratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded
	SUVA(CH) MAK value: SUVA(CH) BAT value: NIOSH: _{8h} 0.0002 _{CrO3} mg/m ³	0,05 e mg/m³ [U/b] 20 μg/L NTP Report on Carcinogens (RoC) List Yes (Chromium VI - Known	to be a human carcinogen); TWA
	[TWA] Time-weighted a OSHA:	verage to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15- [CrO3][TWA] 0.005 mg/m ³	minute period
	Chemical: <i>mercury(II)</i> s EU value: TRGS 900 (DE):	sulfate CAS No. [Hg] 0.02 e mg/m³ [Hg] 0,02 E mg/m³ E/e respirable E/e respirable	.: 7783-35-9
	SUVA(CH) MAK value: SUVA(CH) BAT value:	r: 8 (II), H, Sh piratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Ζ) not securely excluded / ([Hg][MAK] 0,02 e/[STEL] 0,16 e mg/m ³ [Krea U/d] 35 μg/L	Y) certainly excluded
	TRGS 903 (DE):	[U/a _{Kreatinin}] 25 μg/g Β blood, U urine, a no limitation, b end of exposition or shift	
	NIOSH: [TWA] Time-weighted a OSHA:	[Hg Vapor: TWA _{skin}] 0.05; other 0.1 mg/m ³ verage to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15- [TWA] 0.1 mg/m ³	minute period
8.2	Exposure controls Good ventilation and extraction level of cleanliness must be ma	system in the room, floor resistant to chemicals with floor drainage and intained at the workplace.	l washing facilities. The highest
8.2.1	Respiratory protection No additional recommenda	ations.	
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 Anse 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 accord	ling EN 166 with integrated side shields or wrap-around protection or fa	ce protection.
8.2.4	Skin protection Recommended to avoid cl	othing damage, and to avoid contamination with these hazards.	
8.2.5	Personal hygiene Eating, drinking, smoking, with the skin, eyes and clo	taking snuff and storage of food in work areas and at outdoor workplace thing. Rinse any clothing on which the substance has been spilled, and vater when stopping work and before eating, and then apply protective	soak it in water. Wash hands



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

4 mL COD 300 (R0) Appearance: liquid pH: Specific gravity: Solubility in water: Oxidising properties:

Colour: yellow Odor: odorless 0 1,73 g/cm³ 0-100 % tissue-destroying, especially in heated form

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

- 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

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.

4 mL COD 300 (R0)

Chemical: STSCA Inventory:	silver sulfate listed	CAS No.: 10294-26-5
Exposure Routes:	inhalation, ingestion, skin and/o	r eye contact
Target Organs:	Nasal septum, skin, eyes	
Symptoms:	Blue-gray eyes, nasal septum, t	hroat, 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.Inv	entory: KE-12273, >25% Toxic 97-1-92	
LD50 _{orl rat} :	2000-5110 mg/kg	

Chemical:	sulfuric acid	CAS No.: 7664-93-9
TSCA Inventory:	listed	California Proposition 65 List: not listed
ACGIH:	1 ppm	
Exposure Routes:	inhalation, ing	jestion, skin and/or eye contact
Target Organs:	Eyes, skin, re	spiratory system, teeth
Symptoms:	irritation eyes	, skin, nose, throat; pulmonary edema, bronchitis; emphysema; conjunctivitis; stomatis;
dental erosion; eye, sk	in burns; dermatitis	
Australia NICNAS:	not listed	Canada CEPA 1999: DSL Yes
Japan CSCL/PRTR:	not listed, Ja	oan PDSCL: Deleterious Substance
Japan ISHL:	listed ≥1,0%/	≥1,0%, Article 57-2 (SDS required)
South Korea TCCA:	Accident Pre	caution Chemical Yes
Korea Exist.Chem.Inve	entory: KE-32570, >'	0% Toxic 97-1-405, Acc. Precaution Chem.
LD50 _{orl rat} :	2140 mg/kg	
LC50ihl rat :	[8h] 600/ [4h]	850 mg/m³

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> TRGS 905 (DE): Kat 4 CAS No.: 7778-50-9 Chemical: potassium dichromate **TSCA** Inventory: California Proposition 65 List: listed cancer, developmental, female, male listed ACGIH: [CrVI] 0.05 mg/m³ 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) South Korea TCCA: yes, Restricted Chemical Korea Exist.Chem.Inventory: not listed LD50_{orl rat} : 25 mg/kg LC_Loworl gpg : 163 mg/kg 0.094_{4h} mg/L LC50_{ihl rat}: LD50_{drm rbt} : 14 mg/kg 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): TRGS 907 (DE): K2 Sh Chemical: mercury(II) sulfate CAS No.: 7783-35-9 **TSCA** Inventory: California Proposition 65 List: listed developmental listed Exposure Routes: inhalation, skin absorption, ingestion, skin and/or eye contact 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 Japan CSCL/PRTR: PRTR: ≥1,0%Hg class I, Japan PDSCL: Poisonous substance Japan ISHL: listed ≥0,3%/≥0,1%, Article 57-2 (SDS required) South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-23132, Toxic 97-1-140 LD50orl rat : 57 mg/kg LD50_{drm rat}: 625 mg/kg Acute Effects: Cause after oral intake, inhalation of vapours/dust, skin contact, impairments of health when ingested in small quantities. Chronic Effects: May cause damage to organs through prolonged or repeated exposure. TRGS 907 (DE): Sh

SECTION 12: Ecological information

12.1 Toxicity

Following information is valid for pure substances.

4 mL COD 300 (R0)

Chemical: PNEC(fresh water) PNEC = Predicted N	<i>silver sulfate</i> : o Effected Concentratio	0.04 μg/L n	CAS No.: 10294-26-5
LC50 _{daphnia} magr LC50 _{fish/96h} : EC10 _{pseudomonaa} Water hazard cla Storage class (V	s putita/16h [:] ass (DE):	0.22 μg/L [4d] 1.2 μg/L [24h] 0.41-0.54 μg/L 3 12	
PNEC(fresh water)	<i>sulfuric acid</i> substance/mixture : o Effected Concentratic	2.5 μg/L	CAS No.: 7664-93-9
LC50fish/96h : EC50daphnia/48h : EC10pseudomona: Water hazard cla Storage class (V	s putita/16h [:] ass (DE):	[NOEC, 65d] 25 µg/L 100 mg/L [72h] 100 mg/L 1 WGK No.: 0182 8 B	

ACHEREY-NAGE (MN) ISO 9001 CERTIFIEI

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	Chemical: potassi LC50 _{fish/96h} : EC50 _{daphnia/48h} : Water hazard class (DE): Storage class (VCI):	um dichromate 26.13 mg/L 0.77 mg/L 3 WGK No.: 339 6.1 B	CAS No.: 7778-50-9
	Harmful to aquatic life with lo	<i>v(II) sulfate</i> ng lasting effects. Avoid contact of substance not be labelled with P phrases until 125 mL (I LC ₅₀ : 0.5 _{HgCl2/48h} mg/L 3 WGK No.: 0412 6.1 B	CAS No.: 7783-35-9 /mixture to environment. EU 1272/2008 Annex I - 1.5.2).
12.2	Persistence and degradabilit not necessary	у	
12.3	Bioaccumulative potential not necessary		
12.4	Mobility in soil not necessary		
12.5	Results of PBT and vPvB ass no data available	sessment	
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. UN number: 14.3. Class: Road transport	3316 9		UN proper shipping Packing group: II		Chemical Kit		
Classification code:	M11		Tunnel restriction co	de:	E		
Limited Quantity: Air transport	acc. A	DR 3.3	.1/251: see LQ in Alternative declaration for transportation				
PAX:	960		max. weight PAX:	10 KG			
CAO: Maritime transport	960		max. weight CAO:	10 KC			
EmS:	F-A, S	S-P	Storage category:	А			
Or use Alternative of							
		II, Exc 14.2	epted Quantities (≤3	_	500 mL) = ADR/ IATA E2 Corrosive liquid, acidic, inorganic, n.o.s. (sulfuric acid solution)		
UN No.: (see below) or 14.1 UN number: 14.3 Class: Road transport Classification code: Limited Quantity: Excepted Quantity:	class 8 3264	II, Exc 14.2	epted Quantities (≤30 UN proper shipping	name: (,		
UN No.: (see below) or 14.1 UN number: 14.3 Class: Road transport Classification code: Limited Quantity:	class 8 3264 8 C1 1 L	II, Exc 14.2	epted Quantities (≤30 UN proper shipping Packing group: II	name: (Corrosive liquid, acidic, inorganic, n.o.s. (sulfuric acid solution)		

14.5 **Environmental hazards**

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

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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 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	List of relevant H phrases					
	H302	Harmful if swallowed.					
	H312	Harmful in contact with skin.					
	H314	Causes severe skin burns and eye damage.					
	H317	May cause an allergic skin reaction.					
	H332	Harmful if inhaled.					
	H373	May cause damage to organs through prolonged or repeated exposure.					
	H412	Harmful to aquatic life with long lasting effects.					
16.1.2	List of relevant P phrases						
	P260sh	Do not breathe dust/vapours.					
	P261sh	Avoid breathing dust/vapours.					
	P264W	Wash with water thoroughly after handling.					
	P273	Avoid release to the environment.					
	P280sh	Wear protective gloves/eye protection.					
	P301+312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.					
	P302+352	IF ON SKIN: Wash with plenty of water.					
	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.					
	P310	Immediately call a POISON CENTER/doctor.					
	P330	Rinse mouth.					

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

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Sources of key data 16.5

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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