MACHEREY-NAGEI



Safety Data Sheet

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

REF: 985029	NANOCOLOR COD 1500	Page: 1/12
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product	identifier
1.1	Product	Identifier

REF Product name 985029 NANOCOLOR COD 1500

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 2 mL COD 1500 (R0) 1 x 5 mL COD 1500 blank (NULL)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Product for analytical use. Exposure Scenario Classification according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0 The exposure scenario is integrated into sections 1-16.

Uses advised against not described

1.3 Details of the supplier of the safety data sheet

Manufactured by:

MACHEREY-NAGEL GmbH & Co. KG Neumann-Neander-Str. 6-8, 52355 Dueren, GERMANY Tel.: +49 2421 969 0

E-mail: sds@mn-net.com (msds@mn-net.com)

1.4 Emergency telephone number

Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service. DE: Gemeinsames Giftinformationszentrum (GGIZ) 99089 Erfurt tel. +49 361 730 730

You find our current versions of SDS (22 languages) in Internet:

http://www.mn-net.com/SDS

SECTION 2: Hazard identification

Hazard H302 H312 H314 H317 H332 H340 H350

H360Df

H373

H412

2.0 Classification of the complete product

	GHS05	GHS07	GHS08
	GH305	GHSUI	GH300
Signal word	DANGER		
Hazard identification	fication Hazard classes/categories		
H302	Acute Tox	<. 4 oral	
H312	Acute Tox. 4 derm.		
H314	Skin Corr. 1A		
H317	Skin Sens. 1		
H332	Acute Tox. 4 inh.		
H340	Muta 1B		

Carc. 1B

Repr. 1B

STOT RE 2

Aquatic Chronic 3

2.1 Classification of the substance or mixture

2 mL COD 1500 (R0)

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Hazard identification	Hazard classes/categories
H302	Acute Tox. 4 oral
H312	Acute Tox. 4 derm.
H314	Skin Corr. 1A
H317	Skin Sens. 1
H332	Acute Tox. 4 inh.
H340	Muta. 1B
H350	Carc. 1B
H360Df	Repr. 1B
H373	STOT RE 2
H412	Aquatic Chronic 3

5 mL COD 1500 blank (NULL)

Signal word

	GHS05
Signal word	DANGER
Hazard identification	Hazard classes/categories
H314	Skin Corr. 1A

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.

2 mL COD 1500 (R0)



Signal word: DANGER

H314, H317, H340, H350, H360Df Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause genetic defects. May cause cancer. May damage the unborn child. Suspected of damaging fertility.

P260sh, P280sh, P303+361+353, P305+351+338, P310, P405

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. Store locked up.

5 mL COD 1500 blank (NULL)





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Signal word: DANGER

H314

Causes severe skin burns and eye damage.

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. May cause genetic defects. May cause cancer. May cause cancer if inhaled. 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

Avoid contact of substance/mixture to environment. PBT: not applicable not applicable vPvB:

Other hazards

SECTION 3: Composition/information on ingredients

Substances or 3.2 Mixtures 3.1

2 mL COD 1500 (R0)

Chemical: silver s	sulfate	CAS No.: 10294-26-5
Classification:	H318, Eye Dam. 1, H400, Aquatic Acute 1, H410, Aquatic	c Chronic 1
Formula:	Ag ₂ SO ₄	
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	
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: sulfurio	c acid	CAS No.: 7664-93-9
Classification:	H314, Skin Corr. 1B	
Formula:	$H_2 SO_4 (•H_2 O)$	

TSCA Inventory: listed REACH Reg. No.: 01-2119458838-20-xxxx EC No .: 231-639-5 016-020-00-8 Indice No .: RTECS: WS5600000 KE No.: KE-32570, >10% Toxic 97-1-405, Acc. Precaution Chem. Concentration: 80 - <98 % acc. CLP (GHS): H314, Skin Corr. 1B



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	Classification:	Acute Tox. 2 inh., H334, Resp. S		CAS No.: 7778-50-9 ite Tox. 4 derm., H314, Skin Corr. 1B, H317, B, H350, Carc. 1A, H360FD, Repr. 1B, H372,
	SVHC listed:	> exempt for formulation+use	acc.Art56(3)+Q&A10	030
	EC No.: RTECS: KE No.:	231-906-6 HX7680000 not listed	Indice No.: MFCD:	024-002-00-6 00011367
	Concentration:	0,38 - <1,26 % o weight percent of the metal (according to		$r: x 0.79 (= \% CrO_4)$
	acc. CLP (GHS):	• • • •	•	, Muta. 1B, H350, Carc. 1A, H360Df, Repr. 1
		H412, Aquatic Chronic 3	,	,
	Classification:	ury(II) sulfate H300, Acute Tox. 2 oral, H310, e 1, H410, Aquatic Chronic 1 HgSO4 mercuric sulfate listed	Acute Tox. 2 derm., H	CAS No.: 7783-35-9 1330, Acute Tox. 2 inh., H373, STOT RE 2,
	REACH Reg. No.: EC No.: RTECS:	not necessary, amount <1 t/a 231-992-5 OX0500000	Indice No.:	080-004-00-7
	KE No.: Concentration: The classification refers t	KE-23132, Toxic 97-1-140 0,74 - <1,5 % to weight percent of the metal (according to		or: x 0.68 (= %Hg) 2/EC Annex VI. 1.1.3.2 Note 1)
	acc. CLP (GHS): H412, Aquatic Chro	H302, Acute Tox. 4 oral, H312,	•	1332, Acute Tox. 4 inh., H373, STOT RE 2,
	5 mL COD 1500 blank (NUL Chemical: <i>sulfur</i> Classification:	L) <i>ic acid</i> H314, Skin Corr. 1B		CAS No.: 7664-93-9
	Formula: TSCA Inventory: REACH Reg. No.: EC No.:	H ₂ SO ₄ (•H ₂ O) listed 01-2119458838-20-xxxx 231-639-5	Indice No.:	016-020-00-8
	RTECS: KE No.: Concentration: acc. CLP (GHS):	WS5600000 KE-32570, >10% Toxic 97-1-40 51 - <65 % H314, Skin Corr. 1B	5, Acc. Precaution Ch	nem.
• •				
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		
SECT	FION 4: First aid measu	res		
4.1	Description of first aid m	easures		
				and provide resuscitation if necessary. If e, packing insert and this material safety data
4.1.1				ted clothing immediately. Rinse the affected ossible) use soap. Avoid neutralisation. Then
4.1.2	the eyelid wide open for min.	10 minutes with eye washing bott	e, eye douche or runr	eyes rinse thoroughly under running water wit ning water (protect intact eye). Before (if i is painful. Further treatment to be carried ou



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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. ---

4.1.4 After ORAL Intake

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

Rapid penetration and destruction of the skin. Especially in heated form. Potassium dichromate: May cause sensitization by skin contact, also in repeated contact of small amounts. Carcinogenic Effects: May cause genetic defects. May cause cancer. May cause cancer if inhaled. 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. ---

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.

54 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. Products containing also toxic substances should be kept locked up. Storage class (VCI):

8B





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

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	Water hazard class (DI): 3	
7.2.1	Requirements for Keep original prod	, stock rooms and containers ict packages tightly closed during handling and storage, so that they ar kable container for transport of glass bottles.	e not immediately accessible to outside
7.3	Specific end use(Product for analytical u		
SECI	ION 8: Exposure	controls/personal protection	
8.1	Control paramete	Control parameters	
	DNEL: DNEL = Deriv	r sulfate (no data d No-Effect Level (for workers)	CAS No.: 10294-26-5
	PNEC _(fresh water) : PNEC = Pred EU value: TRGS 900 (DE):	0.04 μg/L ted No Effected Concentration [Ag] 0.01e mg/m ³ [Ag] 0,01 E mg/m ³ E/e respirable	
	Short-term exposu skin resorptiv		cluded / (Y) certainly excluded
	NIOSH: [TWA] Time-w OSHA:	[TWA] 0.01 mg/m ³ sighted average to a reference period of 8 hours, [STEL] Short-term exposure limit relate [TWA] 0.01 mg/m ³	ed to a 15-minute period
	DNEL:	<i>ric acid</i> ([inh] 50 μg/m³ d No-Effect Level (for workers)	CAS No.: 7664-93-9
	PNEC _(fresh water) : PNEC = Pred EU value:	2.5 μg/L ted No Effected Concentration 0.1 e mg/m³	
	TRGS 900 (DE):	0.1 E mg/m³ E/e respirable	
	Short-term exposu skin resorptiv SUVA(CH) MAK v	(H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely ex	cluded / (Y) certainly excluded
	NIOSH:	NTP Report on Carcinogens (RoC) List Yes (Known to be a sighted average to a reference period of 8 hours, [STEL] Short-term exposure limit relate [TWA] 1 mg/m ³	human carcinogen); [TWA] 1 mg/m ³ d to a 15-minute period
			CAS No.: 7778-50-9
	DNEL: DNEL = Deriv	[inh] 0.01 mg/m³ d No-Effect Level (for workers)	
	TRGS 900 (DE):	[CrVI] (0,05 E _{ausgesetzt}) mg/m ³ E/e respirable	
	Short-term exposu skin resorptiv SUVA(CH) MAK v	(H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely ex	cluded / (Y) certainly excluded
	SUVA(CH) BAT va NIOSH: 8h 0.0002 _{CrO3} mg/n	lue: [Ú/b] 20 μ̃g/L NTP Report on Carcinogens (RoC) List Yes (Chromium VI -	Known to be a human carcinogen); TW.
	[TWA] Time-w OSHA:	sighted average to a reference period of 8 hours, [STEL] Short-term exposure limit relate [CrO3][TWA] 0.005 mg/m ³	ed to a 15-minute period
	Chemical: <i>mer</i> EU value: TRGS 900 (DE):	ury(II) sulfate 0 [Hg] 0.02 e mg/m³ [Hg] 0,02 E mg/m³ E/e respirable	CAS No.: 7783-35-9
		e factor: 8 (II), H, Sh (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely ex	cluded / (Y) certainly excluded
	SUVA(CH) MAK v SUVA(CH) BAT va TRGS 903 (DE):	lue: [Hg][MAK] 0,02 e/[STEL] 0,16 e mg/m ³	
	NIOSH: [TWA] Time-w	[Hg Vapor: TWA _{skin}] 0.05; other 0.1 mg/m ³ sighted average to a reference period of 8 hours, [STEL] Short-term exposure limit relate	ed to a 15-minute period
	OSHA:	[TWA] 0.1 mg/m³	www.mn-n
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5 mL COD 1500 blank (NUI Chemical: sulfuric acid	,	AS No.: 7664-93-9
DNEL: DNEL = Derived No-Effect	[inh] 50 µg/m³	Ao No., 1004-00-0
PNEC(fresh water) : PNEC = Predicted No Effe	2.5 μg/L ected Concentration	
EU value: TRGS 900 (DE):	0.1 e mg/m³ 0.1 E mg/m³ E/e respirable	
	1 (I), Y ratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely exc	luded / (Y) certainly excluded
SUVA(CH) MAK value: NIOSH: [TWA] Time-weighted ave	0,1 e mg/m ³ NTP Report on Carcinogens (RoC) List Yes (Known to be a h rage to a reference period of 8 hours, [STEL] Short-term exposure limit related	
OSHA:	[TWA] 1 mg/m ³	

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.

8.2.2 Hand protection

Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansell or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.

Eye protection 8.2.3

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

8.2.4 Skin protection

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

2 mL COD 1500 (R0)

Appearance: liquid pH: Specific gravity: Solubility in water:	Colour: brown 0 1,81 g/cm³ 0-100 %	Odor: odorless
Oxidising properties:	tissue-destroying, especially i	n heated form
5 mL COD 1500 blank (NULL) Appearance: liquid	Colour: slighthly green	Odor: odorless
pH: Specific gravity: Solubility in water:	0 1.4-1.5 g/cm³ 0-100 %	

9.2 Other information

Data for the other parameters of the mixtures are not available, because no registration and no chemical safety report is required. Relevant Properties of Substance Group



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SECT	FION 10: Stability and rea	activity	
10.1	Reactivity Strong CORROSIVE, no further da	a available.	
10.2	Chemical stability No known instability.		
10.3	Possibility of hazardous re Can react violently with organic ma		
10.4	Conditions to avoid Not necessary. Observe labeled sto	prage temperature	
10.5	Incompatible materials Avoid contact with strong acids or a	Ikalines.	
10.6	Hazardous decomposition In the original package all parts/all period under recommended conditi	eagents are safety and separated stored. Decompositions are not o	observed during the expiration
SECT	ION 11: Toxicological ir	formation	
11.1	Information on toxicologic	al effects	

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

2 mL COD 1500 (R0)

Chemical: silver	sulfate	CAS No.: 10294-26-5
TSCA Inventory:	listed	
Exposure Routes:		, skin and/or eye contact
Target Organs:	Nasal septum, skin,	
Symptoms:		al septum, throat, skin, irritation, ulceration skin, gastrointestinal disturbance
Japan CSCL/PRTR:		ss I, Japan PDSCL: Deleterious substance
Japan ISHL:	listed ≥1,0%/≥0,1%	
Korea Exist.Chem.Inventory		oxic 97-1-92
LD50 _{orl rat} :	2000-5110 mg/kg	
Chamiaalı auffur	in a niel	CAC No. 7004.00.0
	ic acid	CAS No.: 7664-93-9
TSCA Inventory:	listed	California Proposition 65 List: not listed
ACGIH:	1 ppm	
Exposure Routes:		, skin and/or eye contact
Target Organs:	Eyes, skin, respirato	
Symptoms:	irritation eyes, skin,	nose, throat; pulmonary edema, bronchitis; emphysema; conjunctivitis; stomatis;
dental erosion; eye, skin bu	rns, dermatitis	
Australia NICNAS:	not listed	Canada CEPA 1999: DSL Yes
Japan CSCL/PRTR:	not listed. Japan PD	SCL: Deleterious Substance
Japan ISHL:		Article 57-2 (SDS required)
South Korea TCCA:	Accident Precaution	
		oxic 97-1-405, Acc. Precaution Chem.
		JAIC 97-1-403, ACC. FIECAULION CHEM.
LD50 _{orl rat} :	2140 mg/kg	
LC50 _{ihl rat} :	[8h] 600/ [4h] 850 m	g/m²
TRGS 905 (DE):	Kat 4	
Chemical: potas	sium dichromate	CAS No.: 7778-50-9
TSCA Inventory:	listed	California Proposition 65 List: listed cancer, developmental, female, male
ACGIH:	[CrVI] 0.05 mg/m ³	• ····································
Exposure Routes:		, skin and/or eye contact
Target Organs:		ystem, liver, kidneys, eyes, skin; [lung cancer]
Symptoms:		system; nasal septum perforation; liver, kidney damage; leukocytosis (increased
		system, nasai septum penoration, iiver, kiuney damaye, ieukocytosis (increased
blood leukocytes), leukoper		acifia alaas I. Janan DDCCI - Dalatariawa awkatanaa
Japan CSCL/PRTR:		ecific class I, Japan PDSCL: Deleterious substance
Japan ISHL:		Article 57-2 (SDS required)
South Korea TCCA:	yes, Restricted Che	mical
Korea Exist.Chem.Inventory		
LD50 _{orl rat} :	25 mg/kg	
LC Loworl apg :	163 mg/kg	
LC50 _{ihl rat} :	0.094 _{4h} mg/L	
in fac		

MACHEREY-NAGE <u> (MN)</u> ISO 9001 CERTIFIED



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

REF: 985029 Printing data: 01 10 2019	NANOCOLOR COD 1500	Page: 9/12
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Chronic Effects: May cause through prolonged or repea		amounts. May cause damage to organs
Carcinogenic Effects: May EU carcinogen: TRGS 905 (DE):	cause genetic defects. May cause cancer. May cause cancer if in carc. 1B, mutag. 1B, repr. 1B K2	ıhaled.
TRGS 907 (DE):	Sh	
Chemical: merc TSCA Inventory: Exposure Routes: Target Organs:	cury(II) sulfate CA listed California Proposition 65 List: listed dev inhalation, skin absorption, ingestion, skin and/or eye contact Eyes, skin, respiratory system, central nervous system, kidney	
Symptoms: insomnia, irritability, indecis	irritation eyes, skin; cough, chest pain, dyspnea (breathing diff sion, headac	ficulty), bronchitis, pneumonitis; tremor,
Australia NICNAS: Japan CSCL/PRTR: Japan ISHL:	not listed Canada CEPA 1999: yes (merci PRTR: ≥1,0%Hg class I, Japan PDSCL: Poisonous substance listed ≥0,3%/≥0,1%, Article 57-2 (SDS required)	
South Korea TCCA: Korea Exist.Chem.Inventor LD50 _{orl rat} : LD50 _{drm rat} :	not listed ry: KE-23132, Toxic 97-1-140 57 mg/kg 625 mg/kg	
Acute Effects: Cause after quantities.	ozo mg/kg oral intake, inhalation of vapours/dust, skin contact, impairments e damage to organs through prolonged or repeated exposure.	of health when ingested in small
TRGS 907 (DE):	Sh	
5 mL COD 1500 blank (I		
Chemical: sulfu TSCA Inventory: ACGIH:	ric acid CA listed California Proposition 65 List: not listed 1 ppm	AS No.: 7664-93-9
Exposure Routes: Target Organs: Symptoms: dental erosion; eye, skin bi	inhalation, ingestion, skin and/or eye contact Eyes, skin, respiratory system, teeth irritation eyes, skin, nose, throat; pulmonary edema, bronchitis	s; emphysema; conjunctivitis; stomatis;
Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA:	not listed Canada CEPA 1999: DSL Yes not listed, Japan PDSCL: Deleterious Substance listed ≥1,0%/≥1,0%, Article 57-2 (SDS required) Accident Precaution Chemical Yes ry: KE-32570, >10% Toxic 97-1-405, Acc. Precaution Chem.	
LD50 _{orl rat} : LC50 _{ihl rat} :	2140 mg/kg [8h] 600/ [4h] 850 mg/m ³	
TRGS 905 (DE):	Kat 4	
COTION 42: Ecological in	f	
ECTION 12: Ecological in	ormation	
2.1 Toxicity Following information is valid	l for pure substances.	
2 mL COD 1500 (R0) Chemical: PNEC(fresh water) : PNEC = Predicted No Effec	silver sulfate 0.04 μg/L	CAS No.: 10294-26-5
LC50daphnia magna/48h LC50fish/96h : EC10pseudomonas putita	: 0.22 μg/L [4d] 1.2 μg/L / _{16h} : [24h] 0.41-0.54 μg/L	
Water hazard class (D Storage class (VCI):)E): 3 12	
	s <i>ulfuric acid</i> cance/mixture to environment. 2.5 μg/L ted Concentration	CAS No.: 7664-93-9
LC50 _{fish/96h} : EC50 _{daphnia/48h} :	[NOEC, 65d] 25 µg/L 100 mg/L	

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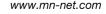
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REF: 985029 NANOCOLOR COD 1500 Page Printing date: 01.10.2019 Date of issue: 17.04.2019 Page EC10pseudomonas putita/16h : [72h] 100 mg/L Water hazard class (DE): 1 Water hazard class (DE): 1 WGK No.: 0182 Storage class (VCI): 8 B	ge: 10/12
EC10 _{pseudomonas putita/16h} : [72h] 100 mg/L Water hazard class (DE): 1 WGK No.: 0182	
Water hazard class (DE): 1 WGK No.: 0182	
Chemical:potassium dichromateCAS No.: 7778-50-9Harmful to aquatic life with long lasting effects. Avoid contact of substance/mixture to environment.Environmental hazards must not be labelled with P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).LC50 _{fish/96h} :26.13 mg/LEC50 _{daphnia/48h} :0.77 mg/LWater hazard class (DE):3Storage class (VCI):6.1 B	
Chemical:mercury(II) sulfateCAS No.: 7783-35-9Harmful to aquatic life with long lasting effects. Avoid contact of substance/mixture to environment.Environmental hazards must not be labelled with P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).Bio Toxicity: $LC_{50}: 0.5_{HgCl2/48h}$ mg/LWater hazard class (DE):3Storage class (VCI):6.1 B	
5 mL COD 1500 blank (NULL) CAS No.: 7664-93-9 Chemical: sulfuric acid CAS No.: 7664-93-9 Avoid contact of substance/mixture to environment. PNEC(fresh water): 2.5 µg/L PNEC = Predicted No Effected Concentration INOEC, 65d] 25 µg/L EC50daphnia/48h : LC50fish/96h : [NOEC, 65d] 25 µg/L EC10pseudomonas putita/16h : EC10pseudomonas putita/16h : [72h] 100 mg/L Water hazard class (DE): 1 WGK No.: 0182 Storage class (VCI): 8 B	
12.2 Persistence and degradability not necessary	
12.3 Bioaccumulative potential not necessary	
12.4 Mobility in soil not necessary	
12.5 Results of PBT and vPvB assessment no data available	
12.6 Other adverse effects no additional data available	
SECTION 13: Disposal considerations	
•	obtain
Please observe local regulations for collection and disposal of hazardous waste and contact waste disposal company, where you will information on laboratory waste disposal (waste code number 16 05 06). Close container tightly.	

SECTION 14: Transport information

14.1. UN number:331614.2. UN proper shipping name:Chemical Kit14.3. Class:914.4. Packing group:IIRoad transport Classification code: M11 Tunnel restriction code: F acc. ADR 3.3.1/251: see LQ in Alternative declaration for transportation Limited Quantity: Air transport PAX: 960 max. weight PAX: 10 KG CAO: max. weight CAO: 960 10 KG Maritime transport F-A, S-P Storage category: А EmS:

Or use Alternative declaration for transportation:



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14.1 UN number:	2022	
14.1 UN number.		
	pping name: Corrosive liquid, toxic, n.o.s. (sulfuric acid, mercury(II) sulfate s	solution)
		solution)

Classification code: Limited Quantity: Excepted Quantity:	CT1 1 L E 2	Tunnel restriction code:		Е
Air transport PAX: CAO:	851 855	max. weight PAX: max. weight CAO:	1 L 30 L	
<i>Maritime transport</i> EmS:	F-A, S-B	Storage category:	в	

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 Transport in bulk according to Annex II of MARPOL and the IBC Code not applicable

SECTION 15: Regulatory information

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

German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on August 2013 German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung -GefStoffV), revised on November 2010, according to Directive 98/24/EC TRGS 200, German engineering rules governing the classification and labelling of hazardous substances, preparations and products,

updated October 2011

MN Leaflet/User manual, also see www.mn-net.com Look for your country-specific regulations.

15.2 **Chemical safety assessment**

not necessary for these small amounts ---

SECTION 16: Other information

16.1 List of H and P phrases

16.1.1 List of relevant H		phrases		
	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.		
	H340	May cause genetic defects.		
	H350	May cause cancer.		
	H360Df	May damage the unborn child. Suspected of damaging fertility.		
	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			
	P201	Obtain special instructions before use.		
	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.		
	P308+313	IF exposed or concerned: Get medical advice/attention.		



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P310	Immediately call a POISON CENTER/doctor	

Rinse mouth. Store locked up

16.2 Training advice

P330

P405

Multiple safety training of staffs about danger and protection by using hazards in working area. Additionally training and introduction of staffs for using these products.

16.3 Recommended restriction on use

Only for professional user.

Look about employee restrictions for young people (f. ex. 94/33/EC or DE § 22 JArbSchG)! Look about employee restrictions for pregnant women and nursing women (f.ex. 92/85/EEC or for DE §§ 11-13 MuSchG 2017)! An individual package of this product or test kit has a moderate hazardous potential.

16.4 Further information

MACHEREY-NAGEL GmbH & Co. KG provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

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16.5 Sources of key data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS Regulation 487/2013/EU, 4th adaptation of CLP regulation to technical and scientific progress Regulation 669/2018/EU, 4th adaptation of CLP regulation to technical and scientific progress TRGS 900, German engineering rules governing limits in air at work, updated 03/2018 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 03/18 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

