MACHEREY-NAGEL



Safety Data Sheet

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

REF: 985030	NANOCOLOR COD 600	Page: 1/13
Printing date: 12.01.2023	Date of issue: 26.09.2022	Version: 2.2.2.19

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

1.1	Product identifier REF Product name	985030 NANOCOLOR COD 600
	REACH Registration number(s): A registration number for the sub the substance or its use is exclud	see SECTION 3.1/3.2 or stance(s) does not exist because the annual tonnage does not require registration or led from registration.
	20 x 2 mL COD 600 (R0) UFI: HRUV-Y3SS-D206-RMH3
1.2	Relevant identified uses Product for analytical use.	ne substance or mixture and uses advised against on according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0 rated into sections 1-16.
1.3	Details of the supplier of the Manufactured by: MACHEREY-NAGEL GmbH & Co Valencienner Str. 11, 52355 Düre Phone: +49 2421 969 0	x KG n, Germany E-mail: sds@mn-net.com (msds@mn-net.com)
1.4	Emergency telephone number Outside Germany (DE): Call your DE: Gemeinsames Giftinformation 99089 Erfurt tel. +49 361	regional Poisons Information Service or call local Life Saving Course and the
	You find our current versions of SDS in Inf	ernet: Carl Roth Schoemperlenstr. 3-0 schoemperlenstr. 3-0 Carl Roth Schoemperlenstr. 3-0 Schoemperlenstr. 3-0
SECT	ION 2. Hazard idontificativ	

SECTION 2: Hazard identification

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



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

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

2 mL COD 600 (R0)

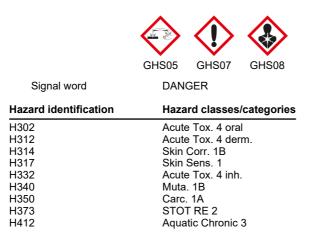


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List of H phrases: see section 16.2

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.

2 mL COD 600 (R0)



Signal word: DANGER

H314, H317, H340, H350

Causes severe skin burns and eye damage.May cause an allergic skin reaction.May cause genetic defects.May cause cancer.

P201, P260sh, P280sh, P303+361+353, P305+351+338, P310, P405

Obtain special instructions before use.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.

Label elements of the complete product



Signal word: DANGER

H314, H317, H340, H350

Causes severe skin burns and eye damage.May cause an allergic skin reaction.May cause genetic defects.May cause cancer.

P201, P260sh, P280sh, P303+361+353, P305+351+338, P310, P405

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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 vPvB: not applicable

Possible endocrine disrupting effects no data available

SECTION 3: Composition / information on ingredients

3.1 Substances or 3.2 Mixtures

2 mL COD 600 (R0)

Substance name: mercury(II) sulfate 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 HgSO₄ Formula: REACH Reg. No .: not necessary, amount <1 t/a 231-992-5 Indice No .: 080-004-00-7 EC No .: Specific concentration limit: STOT RE 2 H373; c ≥ 0,1% 0,74 - <1,5 % Concentration: 0,74 - <1,5 % 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): H302, Acute Tox. 4 oral, H312, Acute Tox. 4 derm., H332, Acute Tox. 4 inh., H373, STOT RE 2, H412, Aquatic Chronic 3 Substance name: sulfuric acid CAS No .: 7664-93-9 Substance rating: H314, Skin Corr. 1B 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% 80 - <100 % Concentration: acc. CLP (GHS): H314, Skin Corr. 1B Substance name: potassium dichromate CAS No.: . 7778-50-9 Substance rating: H272, Ox. Liq. 2, H301, Acute Tox. 3 oral, H312, Acute Tox. 4 derm., H314, Skin Corr. 1B, H317, Skin Sens. 1, H318, Eye Dam. 1, H330, Acute Tox. 2 inh., H334, Resp. Sens. 1, H335, STOT SE 3, H340, Muta. 1B, H350, Carc. 1A, H360FD, Repr. 1B, H372, STOT RE 1, H400, Aquatic Acute 1, H410, Aquatic Chronic 1 Formula: K 2 Cr 2 O 7 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: 0,13 - <0,32 % 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) H312, Acute Tox. 4 derm., H317, Skin Sens. 1, H340, Muta. 1B, H350, Carc. 1A, H373, STOT RE acc. CLP (GHS): 2, H413, Aquatic Chronic 4, EUH208, Skin Sens. 1





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Substance name: CAS No.:	silver sulfate 10294-26-5
Substance rating: Formula: Pseudonym (de): REACH Reg. No.: EC No.:	H318, Eye Dam. 1, H400, Aquatic Acute 1, H410, Aquatic Chronic 2 Ag ₂ SO ₄ Disilber(I)-sulfat 01-2119918297-31-xxxx 233-653-7
Concentration:	0,1 - <1 % Correlation factor: x 0.69 (= %Ag)
The classification refers to	ne 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.

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 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. ---

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

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.

CMR Effekte: May cause genetic defects. May cause cancer. May cause cancer if inhaled. 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. 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



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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

 Avoid contact of substance/mixture to 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.

3

7.2 Conditions for safe storage, including any incompatibilities

Safe storage is guaranteed in the original packaging . 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): 8B

Water hazard class (DE):

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.

7.3 Specific end use(s)

Product for analytical use.

SECTION 8: Exposure controls /personal protection

8.1 Control parameters

2 mL COD 600 (R0) Chemical: mercury(II) su	Ifate CAS No.: 7783-35-9		
EU value:	[Hg] 0.02 e mg/m³		
TRGS 900 (DE):	[Hg] 0,02 E mg/m ³ 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			
SUVA(CH) MAK value:	[Hg][MAK] 0,02 e/[STEL] 0,16 e mg/m³		
SUVA(CH) BAT value:	[Krea U/d] 35 µg/L		
TRGS 903 (DE):	[U/a _{Kreatinin}] 25 μg/g B blood, U urine, a no limitation, b end of exposition or shift		
NIOSH:	[Hg Vapor: TWA _{skin}] 0.05; other 0.1 mg/m³		

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



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	OSHA:	[TWA] 0.1 mg/m³	
	Chemical: sulfuric acid		7664-93-9
	DNEL: DNEL = Derived No-Effe	[inh] 50 μg/m³ ct Level (for workers)	
	PNEC (fresh water) : PNEC = Predicted No Ef	2.5 μg/L fected Concentration	
	EU value: TRGS 900 (DE):	0.1 e mg/m³ 0.1 E mg/m³ E/e respirable	
	Short-term exposure factor: skin resorptive (H), resp	1 (I), Y ratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y)	certainly excluded
	SUVA(CH) MAK value: NIOSH: [TWA] Time-weighted av	0,1 e mg/m³ NTP Report on Carcinogens (RoC) List Yes (Known to be a human ca erage to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-m	arcinogen); [TWA] 1 mg/m³ inute period
	OSHA:	[TWA] 1 mg/m ³	•
	Chemical: potassium da DNEL: DNEL = Derived No-Effe	[inh] 0.01 mg/m ³	7778-50-9
	TRGS 900 (DE):	[CrVI] (0,05 E _{ausgesetzt}) mg/m³ E/e respirable	
	Short-term exposure factor: skin resorptive (H), resp	(4), H ratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y)	certainly excluded
	SUVA(CH) MAK value: SUVA(CH) BAT value: NIOSH:	0,05 e mg/m³ [U/b] 20 μg/L NTP Report on Carcinogens (RoC) List Yes (Chromium VI - Known to	o be a human carcinogen); TWA
	8h 0.0002 _{CrO3} mg/m ³ [TWA] Time-weighted av OSHA:	erage to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-m [CrO3][TWA] 0.005 mg/m ³	inute period
	Chemical: silver sulfate	CAS No.:	10294-26-5
	DNEL: DNEL = Derived No-Effe	no data ct Level (for workers)	
	PNEC (fresh water) : PNEC = Predicted No Ef	0.04 μg/L fected Concentration	
	EU value: TRGS 900 (DE):	[Ag] 0.01e mg/m³ [Ag] 0,01 E mg/m³ E/e respirable	
	Short-term exposure factor: skin resorptive (H), resp	2 (I) ratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y)	certainly excluded
	NIOSH: [TWA] Time-weighted av OSHA:	[TWA] 0.01 mg/m ³ erage to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-m [TWA] 0.01 mg/m ³	inute period
.2 Ex	posure controls		
Goo		system in the room, floor resistant to chemicals with floor drainage and v ntained at the workplace.	washing facilities. The highest
2.1	Respiratory protection No additional recommendat	ions.	
2.2	Skin protection / Hand pro Yes, gloves according EN 3		eopren, or Nitril (f.ex. from Anse
2.3	Eye / Face Protection Yes, safety glasses accordi	ng EN 166 with integrated side shields or wrap-around protection or fac	e protection.
2.4	Skin protection	thing damage, and to avoid contamination with these hazards.	
2.5	Personal hygiene Eating, drinking, smoking, t with the skin, eyes and clot	aking snuff and storage of food in work areas and at outdoor workplaces ning. Rinse any clothing on which the substance has been spilled, and s ater when stopping work and before eating, and then apply protective sh	oak it in water. Wash hands



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no data available

Limitation and monitoring of environmental exposure

Do not release product into environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

2 mL COD 600 (R0) a) State of aggregation: b) Colour: c) Odor: d) Melting point: e) Boiling point: f) Flammability: g) Explosive limits (lower / upper): h) Flash point: i) Flash point: i) Flashing temperature: j) Decomposition temperature: k) pH value: l) Kinematic viscosity: m) Solubility in water: n) Dispersion coefficient (o/w) : o) Vapour pressure (20°C): p) Specific gravity: a) Decimp and a consistence of the second	liquid yellow odorless no data available no data available no data available no data available no data available no data available 0 no data available 0-100 % no data available no data available no data available

9.2 Other information

No data is available for the other parameters for the mixtures, since no registration and no chemical safety report is required. **Properties relevant to substance groups** 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.

2 mL COD 600 (R0)		
Chemical:	mercury(II) sulfate	CAS No.: 7783-35-9
TSCA Inventory:	listed	California Proposition 65 List: listed developmental
Exposure Routes:	inhalation, skin ab	sorption, ingestion, skin and/or eye contact
Target Organs:	Eyes, skin, respira	tory system, central nervous system, kidneys



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ç	Symptoms:	irritation eyes, skin; cough, chest pain,	dyspnea (breathing difficulty) bror	nchitis pneumonitis tremo
	nsomnia, irritability, indec		ajop	
	Australia NICNAS:		CEPA 1999: yes (mercury compou	und - Item 8.)
	Japan CSCL/PRTR:	PRTR: ≥1,0%Hg class I, Japan PDSC		
	Japan ISHL:	listed ≥0,3%/≥0,1%, Article 57-2 (SDS		
	South Korea TCCA:	not listed	Tequiled)	
		y: KE-23132, Toxic 97-1-140		
	_D50 orl rat :	57 mg/kg		han in rated in an all
		oral intake, inhalation of vapours/dust, sk	in contact, impairments of health w	nen ingested in small
	quantities.			
		e damage to organs through prolonged or	repeated exposure.	
	FRGS 907 (DE):	Sh		
(Chemical: sulf	ric acid	CAS No.: 766	4 02 0
			osition 65 List: not listed	4-93-9
	ISCA Inventory:	•	SILION 05 LIST. NOT IISTED	
	ACGIH:	1 ppm		
	Exposure Routes:	inhalation, ingestion, skin and/or eye c	ontact	
	Target Organs:	Eyes, skin, respiratory system, teeth		
	Symptoms:	irritation eyes, skin, nose, throat; pulm	onary edema, bronchitis; emphyser	ma; conjunctivitis; stomatis
	dental erosion; eye, skin b			
	Australia NICNAS:		CEPA 1999: DSL Yes	
	Japan CSCL/PRTR:	not listed, Japan PDSCL: Deleterious	Substance	
	Japan ISHL:	listed ≥1,0%/≥1,0%, Article 57-2 (SDS	required)	
5	South Korea TCCA:	Accident Precaution Chemical Yes	. ,	
ł	Korea Exist.Chem.Invento	y: KE-32570, >10% Toxic 97-1-405, Acc.	Precaution Chem.	
	_D50 orl rat :	2140 mg/kg		
	_C50 ihl mus :	0,85 mg/L/4H		
٦	rrgs 905 (DE):	Kat 4		
	,	ssium dichromate	CAS No.: 777	
٦	FSCA Inventory:		sition 65 List: listed cancer, develo	pmental, female, male
l l	ACGIH:	[CrVI] 0.05 mg/m ³		
E	Exposure Routes:	inhalation, ingestion, skin and/or eye c	ontact	
٦	Farget Organs:	Blood, respiratory system, liver, kidney	/s, eyes, skin; [lung cancer]	
5	Symptoms:	irritation respiratory system; nasal sept	tum perforation, liver, kidney damage	ge; leukocytosis (increase
k	blood leukocytes), leukop	nia (reduced blood le		
	Japan CSCL/PRTR:	PRTR: ≥0,1% Cr specific class I, Japa	n PDSCL: Deleterious substance	
	Japan ISHL:	listed ≥0,1%/≥0,1%, Article 57-2 (SDS		
	South Korea TCCA:	yes, Restricted Chemical		
	Korea Exist.Chem.Invento	3		
	_D50 _{orl rat} :	25 mg/kg		
	_C_Low orl gpg :	163 mg/kg		
L	_C50 ihl rat :	0,094 mg/L/4H		
L	Louise Effects: Cause offect	inhalation of vapours/dust, skin contact, ii	magirments of health when incasts	d in small quantities
		e sensitization by skin contact, also in rep		
			cated contact of small amounts. Ma	ay cause camage to organ
	hrough prolonged or repe		May appear if inheled	
		cause genetic defects. May cause cancer	. way cause cancer it innaled.	
	EU carcinogen:	carc. 1B, mutag. 1B, repr. 1B		
	TRGS 905 (DE):	K2		
	rrgs 907 (DE):	Sh		
(Chemical: silv	r sulfate	CAS No.: 102	94-26-5
	rsca Inventory:	listed	040 102	0.200
	, <u>,</u>		ontact	
	Exposure Routes:	inhalation, ingestion, skin and/or eye c	Uniaci	
	Farget Organs:	Nasal septum, skin, eyes	aking imitation sub-particulation (contrating disturb
	Symptoms:	Blue-gray eyes, nasal septum, throat,		iointestinal disturbance
	Japan CSCL/PRTR:	PRTR: ≥1,0%Ag class I, Japan PDSCI	_: Deleterious substance	
	Japan ISHL:	listed ≥1,0%/≥0,1%		
ł		y: KE-12273, >25% Toxic 97-1-92		
	_D50 _{orl rat} :	2000-5110 mg/kg		

11.2 Other hazards



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	Possible endocrine disrupting e no data available	ffects	
	Other information no additional data available		
SECT	FION 12: Ecological inform	ation	
12.1	Toxicity Following information is valid for pu	re substances.	
	2 mL COD 600 (R0)		
	Chemical: <i>mercury(II)</i> : Bio Toxicity:	sulfate LC 50 : 0.5 насіз/48h mg/L	CAS No.: 7783-35-9
	Water hazard class (DE): Storage class (VCI):	3 WGK No.: 0412 6.1 B	
	Chemical: <i>sulfuric acid</i> PNEC (fresh water) : PNEC = Predicted No Effected Concentrati	2.5 μg/L	CAS No.: 7664-93-9
	LC50 fish/96h : EC50 daphnia/48h :	[NOEC, 65d] 25 μg/L 100 mg/L	
	EC10 _{pseudomonas} putita/16h Water hazard class (DE): Storage class (VCI):	[72h] 100 mg/L 1 WGK No.: 0182 8 B	
		ichromate ects to aquatic life. Avoid contact of substance/m e labelled with P phrases until 125 mL (EU 1272/ 26.13 mg/L 0.77 mg/L 3 WGK No.: 339 6.1 B	
	Chemical: silver sulfate PNEC (fresh water) : PNEC = Predicted No Effected Concentrati		CAS No.: 10294-26-5
	LC50 daphnia magna/48h: LC50 fish/96h: EC10 pseudomonas putita/16h: Water hazard class (DE): Storage class (VCI):	0.22 μg/L [4d] 1.2 μg/L [24h] 0.41-0.54 μg/L 3 12	
12.2	Persistence and degradability	/	
12.3	Bioaccumulative potential not necessary		
12.4	Mobility in soil		
12.5	Results of PBT and vPvB ass This substance/mixture contains no con and very bioaccumulative (vPvB) at lev	nponents considered to be either persistent, bioa	accumulative and toxic (PBT) or very persistent
12.6	Endocrine disrupting propert no data available	ies	
12.7	Other adverse effects		



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Software: M2 V 6.0.28.156
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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

14.1. UN number: 3316 14.2. UN proper shipping name: Chemical Kit 14.3. Class: 9 14.4. Packing group: Ш Road transport ADR Classification code: M11 Tunnel restriction code: Е Limited Quantity: acc. ADR 3.3.1/251: see LQ in Alternative declaration for transportation Air transport ICAO PAX: max. weight PAX: 960 10 KG CAO: 960 max. weight CAO: 10 KG Maritime transport IMDG F-A, S-P EmS: Storage category: Α

Or use Alternative declaration for transportation: UN No.: (see below) class 8 II, Excepted Quantities (≤30 mL/∑≤500 mL) = ADR/ IATA E2 or 14.1 UN number: 3264 14.2 UN proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s. (sulfuric acid solution) 14.4 Packing group: II 14.3 Class: 8 Road transport ADR Classification code: C1 Limited Quantity: 1 L Tunnel restriction code: F Excepted Quantity: E 2 Air transport ICAO Limited Quantity: 1022 Excepted Quantity: E 2 PAX: 851 max. weight PAX: 1 L CAO: max. weight CAO: 855 30 L Maritime transport IMDG 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

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
- TRGS 561, Activities involving carcinogenic metals and their compounds, Oct 2017

MN leaflet/instructions for use, also at www.mn-net.com If necessary, observe other country-specific regulations.



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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

16.2.2

List of relevant H ph	rases
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.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
EUH208	Contains (). May produce an allergic reaction.
List of relevant P ph	rases
P201	Obtain special instructions before use.
P260sh	Do not breathe dust/vapours.
P280sh	Wear protective gloves/eye protection.
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.
P405	Store locked up.

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

Directive 2004/37/EC on the protection of workers from the risk of carcinogens or mutagens at workSUVA .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)

TRGS 905, German rules of technology for carcinogenic and mutagenic substances, as of March 18, 2016 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)

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



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

16.5 Further information

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16.6 Legend / Abbreviations

Logonari		
acc:	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	
DNEL:	Derived No-Effect Level (for workers)	
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	
EmS:	Guide to accident management measures on ships	
EU:	European Union	
fish:	fish (not spezified)	
GHS:	Global Harmonized System of Classification and Labeling of Chemicals	
gpg:	guinea pig	
ICAO:	International Civil Aviation Organization	
ihl:	inhaled	
IMDG:	International Maritime Dangerous Goods Code	
intrav:	intravenous	
ipt: ISHL:	intraperitonaeal Industrial Safety and Health Law (Jp)	
LC50:	letale concentration 50%	
LD50:	letale dosis 50%	
leuciscus idus		
MAK:	maximum workplace concentration	
Met:	Metall	
mus:	mouse	
Muta:	mutagen	
NIOSH:	National Institute for Occupational Safety and Health (US)	
NRD:	Non-rapidly degradable	
onchorhynchu		
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:	Predicted No Effected Concentration	
PROC 15:	Process category 'for laboratory use'	
PRTR:	Law for PRTR and Promotion of Chemical Management (Jp)	
PVC:	polyvinyl chloride	
quail:	bird, quail	
rat:	rat	
rbt:	rabbit	



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RD: RE: REACh: REF: Reg.No.: Repr: Resp: RIP: SCU: SDS: SENS: STEL: STOT: SVHC: t/a: TCCA: TCCA: Tox: TSCA:	rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction respiratory REACH Implementations Projects sub cutan safety data sheet sensitisation short term exposure limit Specific Target Organ Toxicity Substance of Very High Concern tons per year Toxic Chemicals Control Act (S. Korea) toxic The Toxic Substances Control Act (US)
	· · · · ·
TSCA: TWA: TRGS: vPvB:	The Toxic Substances Control Act (US) time weighted average technical regulations (DE) 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.



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