MACHEREY-NAGEL



according to Regulations REACh 1907/2006/EC

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

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) UFI: XDTU-53K3-W20M-DWTS

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

Product for analytical use.

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

Uses advised against not described

1.3 Details of the supplier of the safety data sheet

Manufactured by:

MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11, 52355 Düren, Germany Phone: +49 2421 969 0

1.4 Emergency telephone number

Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service. DE: Gemeinsames Giftinformationszentrum (GGIZ) 99089 Erfurt tel. +49 361 730 730, <https://www.ggiz-erfurt.de>

You find our current versions of SDS in Internet:

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

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

SECTION 2: Hazard identification

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



GHS05 GHS07 GHS08

Signal word	DANGER
Hazard identification	Hazard classes/categories
H302	Acute Tox. 4 oral
H312	Acute Tox. 4 derm.
H314	Skin Corr. 1 B
H317	Skin Sens. 1
H332	Acute Tox. 4 inh.
H340	Muta. 1 B
H350	Carc. 1 A
H360Df	Repr. 1 B
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 1500 (R0)



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





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H340 Muta. 1 B H350 Carc. 1 A Repr. 1 B H360Df H373 STOT RE 2 H412 Aquatic Chronic 3

List of H phrases: see section 16.2

H302

H312

H314 H317

H332

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 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.

P201, P202, P260sh, P264, P280sh, P303+361+353, P305+351+338, P310, P333+313, P405, P501

Obtain special instructions before use Do not handle until all safety precautions have been read and understood.Do not breathe dust/vapours.Wash hands thoroughly after handling.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.lf skin irritation or rash occurs. Get medical advice/attention.Store locked up.Dispose of contents/container to regulated waste treatment.

Label elements of the complete product



Signal word: DANGER H314, H317, H340, H350, H360Df

contents/container to regulated waste treatment.

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. P201, P202, P260sh, P264, P280sh, P303+361+353, P305+351+338, P310, P333+313, P405, P501 Obtain special instructions before use.Do not handle until all safety precautions have been read and understood.Do not breathe dust/vapours.Wash hands thoroughly after handling.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.If skin irritation or rash occurs: Get medical advice/attention.Store locked up.Dispose of



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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

Should not be released into the environment. **PBT:** not applicable **vPvB:** not applicable

Possible endocrine disrupting effects no data available

SECTION 3: Composition / information on ingredients

3.1 Substances or 3.2 Mixtures

2 mL COD 1500 (R0)

aile an an Ifata
silver sulfate
10294-26-5
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 0,1 - <1 % Correlation factor: x 0.69 (= %Ag) the weight percentage of the metal (according to CLP regulation 2008/1272/EG Annex VI, 1.1.3.2 Note 1) The criteria for classification are not fulfilled.
sulfuric acid 7664-93-9
H314, Skin Corr. 1 B H $_2$ SO $_4$ (•H $_2$ O) 01-2119458838-20-xxxx 231-639-5 Indice No.: 016-020-00-8 limit: Eye Irrit. 2; H319: 5 % \leq C $<$ 15 % - Skin Irrit. 2; H315: 5 % \leq C $<$ 15 % - Skin Corr 80 - <100 % H314, Skin Corr. 1 B
potassium dichromate 7778-50-9
H272, Ox. Liq. 2, H301, Acute Tox. 3 oral, H312, Acute Tox. 4 derm., H314, Skin Corr. 1 B, H317, Eye Dam. 1, H330, Acute Tox. 2 inh., H334, Resp. Sens. 1, H335, resp. irrit. STOT SE 3, H340, c. 1 A, H360FD, Repr. 1 B, H372, STOT RE 1, H400, Aquatic Acute 1, H410, Aquatic Chronic 1 K $_2$ Cr $_2$ O $_7$ Kaliumbichromat 01-2119454792-32-0004 < exempt for formulation+use acc. Art.56(3)+Q&A1030 231-906-6 Indice No.: 024-002-00-6 Indice No.: 024-



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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 Formula: HgSO₄ REACH Reg. No .: not necessary, amount <1 t/a 231-992-5 Indice No.: 080-004-00-7 EC No.: STOT RE 2 H373; c ≥ 0,1% Specific concentration limit: 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

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

Strongly corrosive. Especially in heated form. 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

Strongly corrosive. Especially in heated form. IMMEDIATELY: 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. May damage the unborn child. Suspected of damaging fertility. 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.



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5.1.2	Unsuitable extinguishing media		

no data available

5.2 Special hazards arising from the substance or mixture

Formation of hazardous and caustic vapour-air mixtures possible.

5.3 Advice for firefighters

No, for listed product.Product package burns like paper or plastic. Spray any vapours released with water. Retent fire water. Use only acid-resistant safety equipment.

For great amount - if necessary - protective breathing apparatus which is independent of the ambient air (isolated equipment), and sealed protective clothing is necessary in the event of a large-scale formation of toxic substances.

5.4 Additional information

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 **Environmental precautions**

Should not be released into the environment. PBT: not applicable

vPvB: not applicable

6.3 Methods and material for containment and cleaning up

Bind any escaping liquid with inert absorbent. And dispose in accordance to local regulations for the disposal of hazardous chemicals. Clean any contaminated equipment and floors with plenty of water. Collect small amounts of leaked liquid and flush with water into drains.

6.4 Reference to other sections

see information in section 5.4,7,8 and 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling in accordance with the test instruction, that comes with the product. Use a safety bottle when shaking test tubes.

7.2 Conditions for safe storage, including any incompatibilities

Safe storage is guaranteed in the original packaging from MACHEREY-NAGEL. Products which are also classified as toxic must be kept under lock and key. Storage class (German chemical industry): see chapter 12.1 Storage class (VCI): 8B 3

Water hazard class (DE):

Requirements for stock rooms and containers 7.2.1

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

Control parameters 8.1

2 mL COD 1500 (R0) Chemical: potassium dici	hromate	CAS No.: 7778-50-9
DNEL: DNEL = Derived No-Effect	[inh] 0.01 mg/m³ Level (for workers)	
TRGS 900 (DE):	[CrVI] (0,05 E _{ausgesetzt}) mg/m³ E/e respirable	
Short-term exposure factor: skin resorptive (H), respira	(4), H tory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely ex	cluded / (Y) certainly excluded
SUVA(CH) MAK value:	0,05 e mg/m³	
SUVA(CH) BAT value:	[U/b] 20 μg/L	
NIOSH:	NTP Report on Carcinogens (RoC) List Yes (Chromium VI -	Known to be a human carcinogen); TWA



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	8h 0.0002 _{CrO3} mg/m³ [TWA] Time-weighted ave	rage to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period	
	OSHA:	[CrO3][TWA] 0.005 mg/m ³	
	Chemical: <i>mercury(II) st</i> EU value: TRGS 900 (DE):	ulfate CAS No.: 7783-35-9 [Hg] 0.02 e mg/m³ [Hg] 0,02 E mg/m³ E/e respirable E/e respirable	
	Short-term exposure factor: skin resorptive (H), respir	8 (II), H, Sh atory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly exclud	ed
	SUVA(CH) MAK value: SUVA(CH) BAT value: TRGS 903 (DE):	[Hg][MAK] 0,02 e/[STEL] 0,16 e mg/m³ [Krea U/d] 35 μg/L [U/a kreatinin] 25 μg/g B blood, U urine, a no limitation, b end of exposition or shift	
	NIOSH: [TWA] Time-weighted ave	[Hg Vapor: TWA _{skin}] 0.05; other 0.1 mg/m ³ rage to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period	
	OSHA:	[TWA] 0.1 mg/m ³	
	Chemical: <i>sulfuric acid</i> DNEL: DNEL = Derived No-Effect	[inh] 50 µg/m³ t Level (for workers) CAS No.: 7664-93-9	
	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	
	Short-term exposure factor: skin resorptive (H), respir	1 (I), Y atory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly exclud	ed
	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 human carcinogen); [¹ rage to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period	「WA] 1 mg/m³
	OSHA:	[TWA] 1 mg/m³	
	Chemical: <i>silver sulfate</i> DNEL: DNEL = Derived No-Effec	no data t Level (for workers)	
	PNEC (fresh water) : PNEC = Predicted No Effe	0.04 μg/L ected 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), respir	2 (I) atory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly exclud	ed
	NIOSH:	[TWA] 0.01 mg/m ³ rage to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period	
	OSHA:	[TWA] 0.01 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 Skin protection / 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.

8.2.3 Eye / Face Protection

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.



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8.2.6	Thermal hazards no data available		
3.3	Limitation and monitoring of env	ironmental exposure	
	Do not release product into environment.		
	·		
SECT	ION 9: Physical and chemica	l properties	
9.1	Information on basic physical an	d chemical properties	
	2 mL COD 1500 (R0)		
	a) State of aggregation:	liquid	
	b) Colour:	brown	
	c) Odor:	odorless	
	d) Melting point:	no data available	
	e) Boiling point:	no data available	
	f) Flammability:	no data available	
	g) Explosive limits (lower / upper):	no data available	
	h) Flash point:	no data available	
	i) Flashing temperature:	no data available	
	j) Decomposition temperature:	no data available	
	k) pH value:	0 na data available	
	I) Kinematic viscosity:	no data available	
	m) Solubility in water:	0-100 %	
	n) Dispersion coefficient (K $_{o/w}$):	no data available no data available	
	o) Vapour pressure (20°C):		
	p) Specific gravity:	1,81 g/cm ³	

no data available

no data available

q) Relative vapour density (air=1):

r) Particle size:

9.2 Other information

9.2.1 Information on physical hazard classes no data available

9.2.2 Other safety-related parameters No data is available for the other parameters for the mixtures, since no registration and no chemical safety report is required. Substances are highly corrosive.

SECTION 10: Stability and reactivity

- 10.1 Reactivity Strong CORROSIVE, no further data available.
- 10.2 **Chemical stability**
 - no known instability.
- 10.3 Possibility of hazardous reactions Can react violently with organic material. No further data available.
- 10.4 Conditions to avoid

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

- 10.5 Incompatible materials
 - no additional data available

10.6 Hazardous decomposition products

In the original package all parts/all reagents are safety and separated stored. Decompositions are not observed during the expiration period under recommended conditions.



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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 1500 (R0) Chemical: potassium dichromate CAS No.: 7778-50-9 **TSCA** Inventory: listed California Proposition 65 List: listed cancer, developmental, female, male [CrVI] 0.05 mg/m³ ACGIH. Exposure Routes: inhalation, ingestion, skin and/or eye contact Target Organs: Blood, respiratory system, liver, kidneys, eyes, skin; [lung cancer] Symptoms: irritation respiratory system; nasal septum perforation; liver, kidney damage; leukocytosis (increased blood leukocytes), leukopenia (reduced blood le Japan CSCL/PRTR: PRTR: ≥0,1% Cr specific class I, Japan PDSCL: Deleterious substance listed ≥0,1%/≥0,1%, Article 57-2 (SDS required) Japan ISHL: South Korea TCCA: yes, Restricted Chemical Korea Exist.Chem.Inventory: not listed LD50 orl rat : 25 mg/kg LC Low orl gpg : 163 mg/kg LC50 ihl rat : 0,094 mg/L/4H Acute Effects: Cause after inhalation of vapours/dust, skin contact, impairments of health when ingested in small quantities. Chronic Effects: May cause sensitization by skin contact, also in repeated contact of small amounts. May cause damage to organs through prolonged or repeated exposure. Carcinogenic Effects: May cause genetic defects. May cause cancer. May cause cancer if inhaled. EU carcinogen: carc. 1B, mutag. 1B, repr. 1B TRGS 905 (DE): K2 TRGS 907 (DE): Sh mercury(II) sulfate CAS No.: 7783-35-9 Chemical: **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 Symptoms: irritation eyes, skin, cough, chest pain, dyspnea (breathing difficulty), bronchitis, pneumonitis; tremor, insomnia, irritability, indecision, headac Australia NICNAS not listed Canada CEPA 1999: yes (mercury compound - Item 8.) 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 LD50 orl rat : 57 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 Chemical: sulfuric acid CAS No.: 7664-93-9 **TSCA** Inventory: California Proposition 65 List: not listed listed ACGIH: 1 ppm Exposure Routes: inhalation, ingestion, skin and/or eye contact Target Organs: Eyes, skin, respiratory system, teeth Symptoms: irritation eves, skin, nose, throat, pulmonary edema, bronchitis, emphysema, conjunctivitis, stomatis, dental erosion; eye, skin burns; dermatitis not listed Canada CEPA 1999: DSL Yes Australia NICNAS: not listed, Japan PDSCL: Deleterious Substance Japan CSCL/PRTR: Japan ISHL: listed ≥1,0%/≥1,0%, Article 57-2 (SDS required) South Korea TCCA: Accident Precaution Chemical Yes Korea Exist.Chem.Inventory: KE-32570, >10% Toxic 97-1-405, Acc. Precaution Chem. 2140 mg/kg LD50 orl rat : 0,85 mg/L/4H LC50 ihl mus : TRGS 905 (DE): Kat 4 Chemical: silver sulfate CAS No.: 10294-26-5 **TSCA** Inventory: listed Exposure Routes: inhalation, ingestion, skin and/or eye contact Nasal septum, skin, eyes Target Organs: Blue-gray eyes, nasal septum, throat, skin; irritation, ulceration skin; gastrointestinal disturbance Symptoms: Japan CSCL/PRTR: PRTR: ≥1,0%Ag class I, Japan PDSCL: Deleterious substance listed ≥1,0%/≥0,1% Japan ISHL: Korea Exist.Chem.Inventory: KE-12273, >25% Toxic 97-1-92



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	LD50 orl rat :	2000-5110 mg/kg	
11.2	Other hazards		
	Possible endocrine disr no data available	upting effects	
	Other information no additional data availab	le	
SECT	ION 12: Ecological in	nformation	
12.1	Toxicity Following information is val	d for pure substances.	
	Harmful to aquatic life wit Environmentally hazardou Paragraph 1.5.2). LC50 _{fish/96h} : EC50 _{daphnia} /48h :	assium dichromate n long lasting effects. Do not release into the environment. Is substances/mixtures do not have to be labeled with P-phra 26.13 mg/L 0.77 mg/L	CAS-Nr.: 7778-50-9 ases up to 125 mL (EU 1272/2008 Annex I
	Water hazard class (DE): Storage class (VCI):	6.1 B	040 Nr. 7700 05 0
	Harmful to aquatic life wit	rcury(II) sulfate n long lasting effects. Do not release into the environment. is substances/mixtures do not have to be labeled with P-phra LC ₅₀ : 0.5 _{HgCl2/48h} mg/L 3 WGK No.: 0412 6.1 B	CAS-Nr.: 7783-35-9 ases up to 125 mL (EU 1272/2008 Annex I
	Do not release into the er	f <i>uric acid</i> ivironment. 2.5 μg/L Concentration = concentration at which no effect on the environment is expe	CAS-Nr.: 7664-93-9
	LC50 fish/96h : EC50 daphnia/48h : EC10 pseudomonas putita/16 Water hazard class (DE): Storage class (VCI):	[NOEC, 65d] 25 μg/L 100 mg/L	cted
		er sulfate 0.04 μg/L Concentration = concentration at which no effect on the environment is expe	CAS-Nr.: 10294-26-5
	LC50 daphnia magna/48h : LC50 fish/96h : EC10 pseudomonas putita/16 Water hazard class (DE): Storage class (VCI):	0.22 µg/L [4d] 1.2 µg/L	

12.2 Persistence and degradability

12.3 Bioaccumulative potential

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

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



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12.6 Endocrine disrupting properties

no data available 12.7 Other adverse effects

no additional data available

no additional data available

SECTION 13: Disposal considerations

Please observe local regulations for collection and disposal of hazardous waste and contact waste disposal company, where you will obtain information on laboratory waste disposal (waste code number 16 05 06). Close container tightly.

13.1 Waste treatment methods

Not necessary, see above.

SECTION 14: Transport information

14.1. UN number: 3316 14.2. UN proper shipping name: Chemical Kit 14.3. Class: 9					
14.4. Packing group:	II				
Road transport ADR					
Classification code:	M11 Tu	nnel restriction code:	E		
Limited Quantity:	acc. ADR 3.3.1/2	51: see LQ in Alternative	declaration for tr	ansportation	
Air transport IATA DGR				•	
Limited Quantity:	PAX:	960		max. quantity PAX:	10 KG
	CAO:	960		max. quantity CAO:	10 KG
Maritime transport IMDG					
EmS:	F-A, S-P	Staukategor	ie:	A	

Or use Alternative declaration for transportation:

14.1 UN number: 2922 14.2 UN proper shipping name: Corrosive liquid, toxic, n.o.s. (mercury(II) sulfate, sulfuric acid solution) 14.3 Class: 8 Additionally class: 6.1

14.4 Packing group: II Road transport ADR Classification code: Limited Quantity: Excepted Quantity:	CT1 1 L E 2	Tunnel restriction cod	e: E
Air transport IATA DGR Limited Quantity: Excepted Quantity:	PAX: 851 CAO: 855 E 2	max. quantity PAX: max. quantity CAO:	1 L 30 L
<i>Maritime transport IMDG</i> EmS: Special instructions:	F-A, S-B 274	Staukategorie:	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 Carriage in bulk by sea in accordance with IMO instruments Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Chemicals Prohibition Ordinance - (DE: ChemVerbotsV), aktualisiert Jan 2017 Dangerous Substances Protection Act (DE: Chemikaliengesetz - ChemG), Aug 2013, Stand: Okt 2020 Ordinance on protection against dangerous substances (E: Gefahrstoffverordnung - GefStoffV), Nov 2010, Stand: Mrz 2017 TRGS 201, Classification and labeling of activities involving hazardous substances, Feb 2017 TRGS 220, National aspects when preparing safety data sheets, Jan 2017

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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.

15.2 Chemical safety assessment

not necessary for these small amounts

SECTION 16: Other information

16.1 Changes compared to the last version

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

16.2 List of H and P phrases

16.2.1	List of relevant H phrases			
	Н	Between versions 2.2.2.19 and 2.2.2.2 following changes were applied: - 17 substance data corrected		
	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.		
16.2.2	List of relevant P phrases			
	P201	Obtain special instructions before use.		
	P202	Do not handle until all safety precautions have been read and understood.		
	P260sh	Do not breathe dust/vapours.		
	P264	Wash hands thoroughly after handling.		
	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.		
	P333+313	If skin irritation or rash occurs: Get medical advice/attention.		
	P405	Store locked up.		
	P501	Dispose of contents/container to regulated waste treatment.		

16.3 Recommended restriction on use

Only for professional user.

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

16.4 Sources of key data

KÜHN, BIRETT, Leaflets on hazardous materials, 2021

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

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)



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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 3, 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 (16th ATP) Regulation 849/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (17th ATP) Regulation 643/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (17th ATP) Regulation 692/2022/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (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

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

Logona / /	
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:	intraperitonaeal
ISHL:	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: NRD:	National Institute for Occupational Safety and Health (US)
INRU.	Non-rapidly degradable



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onchorhynchu orl:	us mykiss: fish, rainbow trout oral
OSHA:	Occupational Safety and Health Administration
PAX:	transport on passenger planes allowed
PBT	persistent, bioaccumulating, toxic substance
pH:	pH value
pimephales p	1
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
RD:	rapidly degradable
RE:	repeated
REACh:	Registration, Evaluation, Authorisation and Restriction of Chemicals
REF:	item number, reference number
Reg.No.:	rRegistration number
Repr:	harmful to reproduction
Resp:	respiratory
RIP:	REACH Implementations Projects
SCU:	sub cutan
SDS:	safety data sheet
Sens:	sensitisation
STEL:	short term exposure limit
STOT:	Specific Target Organ Toxicity
SVHC:	Substance of Very High Concern
t/a: TCCA:	tons per year
TOCA. Tox:	Toxic Chemicals Control Act (S. Korea) toxic
TSCA:	The Toxic Substances Control Act (US)
TWA:	
TRGS:	time weighted average technical regulations (DE)
vPvB:	very persistent, very bioaccumulating substance
VI VD.	vory poroiotonit, vory biodoodinidiating 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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