# CHEREY-NAGEI

# **Safety Data Sheet**

#### SDS acc. Hazard Communication Standard

REF: 985033	NANOCOLOR COD 300	Page: 1/12
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## SECTION 1: Identification of the substance/mixture and of the company

#### 1.1 **Product Identifier / Product Name**

RFF Product Name 985033 NANOCOLOR COD 300

20 x 4 mL COD 300 (R0)

UFI: F7TU-536A-920N-27NN

#### 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 and of the Safety Data Sheet

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

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

#### 1.4 **Emergency Telephone Number**

Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service. USA: American Association Of Poison Control Centers Rockville, MD 20857. tel. 1-800-222-1222, <https://www.poisonhelp.org> DE: Gemeinsames Giftinformationszentrum (GGIZ) 99089 Erfurt tel. +49 361 730 730 <https://www.ggiz-erfurt.de>

You find our current versions of SDS in Internet:

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

## SECTION 2: Hazard(s) Identification

#### 2.0 **Classification of the complete Product**



Signal Word DANGER **Hazard Identification** Hazard Classes/Categories H302 Acute Tox. 4 oral H312 Acute Tox. 4 derm. Skin Corr. 1 B H314 H317 Skin Sens. 1 H332 Acute Tox. 4 inh. H373 STOT RE 2 H412 Aquatic Chronic 3

#### 2.1 Classification of the substance or mixture

4 mL COD 300 (R0)





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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	

List of H phrases: see section 16.2

H373 H412

#### 2.2 Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

According the implementation of GHS immediate packages only must be labelled with product identificator(s), GHS symbol(s), signal word, manufacturer name and phone number (OSHA's interpretation of HCS 2012). Inner packages up to 10 mL need max. 2 symbols (regulation 1272/2008/EU 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) / until 100 mL (Canada WHMIS 2015). This labelling exemption does not apply to U.S.A. This labelling exemption is NOT valid for sensibilizing substances.

4 mL COD 300 (R0)



STOT RE 2

Aquatic Chronic 3

Signal Word: DANGER

H314, H317

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

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

Do not breathe dust/vapors.Immediately call a POISON CENTER/doctor.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. If 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

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

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

Do not breathe dust/vapors.Immediately call a POISON CENTER/doctor.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 If skin irritation or rash occurs: Get medical advice/attention.Store locked up.Dispose of contents/container to regulated waste treatment.

#### 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. Vapors 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 vapors/dust, skin contact, impairments of health when ingested in small quantities. May cause sensitization by skin contact, also in repeated contact of small amounts. Can accumulate within the body.

The risk assessment of the tube tests showed no risk «Toxic if inhaled.» at the application.



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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 data not available

## **SECTION 3: Composition/Information on Ingredients**

#### 3.1 Substances or 3.2 Mixtures

#### 4 mL COD 300 (R0)

Substance name:	silver sulfate
CAS No.:	10294-26-5
Substance rating:	H318, Eye Dam. 1, H400, Aquatic Acute 1, H410, Aquatic Chronic 2
Chemical Formula:	Ag <sub>2</sub> SO <sub>4</sub>
Synonyms (de):	Disilber(I)-sulfat
REACH Reg. No.:	01-2119918297-31-xxxx
EC No.:	233-653-7
Concentration:	0,1 - <1 % Correlation Factor: x 0.69 (= %Ag)
The destification refers to	the weight percentage of the metal (according to CLP regulation 2008/1272/EG Annex VI, 1.1.3.2 Note 1)
acc. GHS:	The criteria for classification are not fulfilled.
Substance name:	sulfuric acid
CAS No.:	7664-93-9
Substance rating: Chemical Formula: REACH Reg. No.: EC No.: Specific concentratio 1A; H314 c ≥ 15% Concentration: acc. GHS:	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 n 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
Substance name:	potassium dichromate
CAS No.:	7778-50-9
Muta. 1 B, H350, Car Chemical Formula: Synonyms (de): REACH Reg. No.: SVHC listed: EC No.: Specific concentratio Concentration:	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 <b>&lt; exempt for formulation+use acc. Art.56(3)+Q&amp;A1030</b> 231-906-6 Indice No.: 024-002-00-6 n limit: STOT SE 3; H335 c $\geq$ 5% 0 - <0,1 % Correlation Factor: x 0.79 (= %CrO $_4$ ) the weight percentage of the metal (according to CLP regulation 2008/1272/EG Annex VI, 1.1.3.2 Note 1) H317, Skin Sens. 1
Substance name:	mercury(II) sulfate
CAS No.:	7783-35-9
Chemical Formula: REACH Reg. No.: EC No.: Specific concentratio Concentration:	0,37 - <0,74 % Correlation Factor: x 0.68 (= %Hg) the weight percentage of the metal (according to CLP regulation 2008/1272/EG Annex VI, 1.1.3.2 Note 1) H302, Acute Tox. 4 oral, H312, Acute Tox. 4 derm., H332, Acute Tox. 4 inh., H373, STOT RE 2,





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#### 3.3 Remarks

When not listed, mixtures are added with water [CAS No. 7732-18-5] to 100%.List of Hazard and Precaution 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 Vapors

After inhalation of foam or vapor 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 neutralize it. Contact medical advice for possible consequences.

#### 4.2 Most important Symptoms and Effects, both acute and delayed

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

Can accumulate in the body.

#### 4.3 Indication of any immediate Medical Attention and Special Treatment needed

CORROSIVE DAMAGE: After SKIN CONTACT rinse with water for a long time. Efforts to neutralise the substance can frequently make matters worse. Apply glucocorticosteroides following inflammatory reactions. After EYE CONTACT rinse immediately with plenty of water for a long time. Eyelid convulsion measures. Name the corrosive substance. 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: Fire-Fighting Measures**

#### 5.1 Extinguishable 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

data not available

#### 5.2 Special Hazards arising from the Substance or Mixture

Formation of hazardous and caustic vapor-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.



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6.1

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#### **SECTION 6: Accidental Release Measures**

**Personal Precautions, Protective Equipment and Emergency Procedure** Do not breathe vapors. 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 hazards. Clean any contaminated equipment and floors with plenty of water. Collect small amounts of leaked liquid and flush with water into sewer.

#### 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 The original product package of MACHEREY-NAGEL allows a safe storage. Storage class (German chemical industry): see chapter 12.1 Storage class (VCI): 8B Water hazard class (DE): 3

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

#### 7.3 Specific End Use(s)

Product for analytical use.

## **SECTION 8: Exposure Controls/Personal Protection**

#### 8.1 Control Parameters

4 mL COD 300 (R0) Chemical: mercury(II) su NIOSH: [TWA] Time-weighted aver	l <b>fate</b> [Hg Vapor: TWA <sub>skin</sub> ] 0.05; other 0.1 mg/m³ age to a reference period of 8 hours, [STEL] Short-term exposure limit rela	CAS No.: 7783-35-9 ted to a 15-minute period
OSHA: EU value:	[TWA] 0.1 mg/m³ [Hg] 0.02 e mg/m³	
Chemical: sulfuric acid DNEL: DNEL = Derived No-Effect	[inh] 50 µg/m³ Level (for workers)	CAS No.: 7664-93-9
PNEC (fresh water) : PNEC = Predicted No Effe	2.5 µg/L cted Concentration	
NIOSH: [TWA] Time-weighted aver	NTP Report on Carcinogens (RoC) List Yes (Known to be age to a reference period of 8 hours, [STEL] Short-term exposure limit rela	a human carcinogen); [TWA] 1 mg/m <sup>3</sup> ated to a 15-minute period
OSHA: EU value:	[TWA] 1 mg/m³ 0.1 e mg/m³	
Chemical: potassium dic DNEL: DNEL = Derived No-Effect	[inh] 0.01 mg/m <sup>3</sup>	CAS No.: 7778-50-9
NIOSH: 8h 0.0002 <sub>CrO3</sub> mg/m <sup>3</sup>	NTP Report on Carcinogens (RoC) List Yes (Chromium VI	
[TWA] Time-weighted aver OSHA:	age to a reference period of 8 hours, [STEL] Short-term exposure limit rela [CrO3][TWA] 0.005 mg/m <sup>3</sup>	tted to a 15-minute period





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	Chemical: <i>silver sulfa</i> DNEL: DNEL = Derived No-Ef	no data ect Level (for workers)	No.: 10294-26-5	
	PNEC <sub>(fresh water)</sub> : PNEC = Predicted No I NIOSH:	0.04 μg/L Effected Concentration [TWA] 0.01 mg/m³		
		[TWA] 0.01 mg/m <sup>3</sup> verage to a reference period of 8 hours, [STEL] Short-term exposure limit related to a [TWA] 0.01 mg/m <sup>3</sup> [Ag] 0.01e mg/m <sup>3</sup>	a 15-minute period	
8.2	Exposure Controls			
	Good ventilation and extraction level of cleanliness must be ma	a system in the room, floor resistant to chemicals with floor drainage a national at the workplace.	and washing facilities. The highest	
8.2.1	Respiratory Protection No additional recommend			
8.2.2	Yes, gloves (permeation t	<b>protection / Hand protection</b> gloves (permeation time >30 min - level 2), consist of PVC, Natural latex, Neopren, or Nitril. Use for short times chemical ant Latex gloves f.ex. with code EN 374-3 level 1.		
8.2.3	<b>Eye / Face Protection</b> Yes, Splash Goggles or F	ace Protection.		
8.2.4	Skin Protection Recommended to avoid c	othing damage, and to avoid contamination with these hazards.		
8.2.5	<b>Hygiene Measures</b> Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.			
8.2.6	Thermal hazards data not available			
	Limitation and monitor Do not release product into en	ing of environmental exposure /ironment.		

## **SECTION 9: Physical and Chemical Properties**

#### 9.1 Information on Basic Physical and Chemical Properties

4 mL COD 300 (R0)	
a) State of aggregation:	liquid
b) Color:	yellow
c) Odor:	odorless
d) Melting Point:	data not available
e) Boiling Point:	data not available
f) Flammability:	data not available
g) Explosive Limits (lower / upper):	data not available
h) Flash Point:	data not available
<ol> <li>Autoignition Temperature:</li> </ol>	data not available
<ol><li>j) Decomposition Temperature:</li></ol>	data not available
k) pH Value:	0
<ol> <li>Kinematic Viscosity:</li> </ol>	data not available
m) Soluble in Water:	0-100 %
n) Partition Coefficient (K <sub>o/w</sub> ):	data not available
o) Vapor Pressure (68°F):	data not available
p) Specific Gravity:	1,73 g/cm³
q) Relative Vapor Density (air=1):	data not available
r) Particle Size:	data not available

#### 9.2 **Further Information**

#### 9.2.1 Information on physical hazard classes

data not available



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#### 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 Strongly 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** 10.6 **Hazardous Decomposition Products** In the original package all parts/all reagents are safety and separated stored. Decompositions are not observed during the expiration period under recommended conditions. **SECTION 11: Toxicological Information** 

# 11.1 Information on Toxicological Effects

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

4 mL COD 300 (R0)		
Chemical: m	ercury(II) sulfate	CAS No.: 7783-35-9
TSCA Inventory:	listed	California Prop. 65 List: listed developmental
Exposure Routes:	inhalation, skin abs	orption, ingestion, skin and/or eye contact
Target Organs:		tory system, central nervous system, kidneys
Symptoms:		; cough, chest pain, dyspnea (breathing difficulty), bronchitis, pneumonitis; tremor,
insomnia, irritability, inde		
Canada CEPA 1999:	yes (mercury comp	oound - Item 8.)
LD50 orl rat :	57 mg/kg	
	er oral intake, inhalation	of vapors/dust, skin contact, impairments of health when ingested in small
quantities.		
		rough prolonged or repeated exposure.
	ulfuric acid	CAS No.: 7664-93-9
TSCA Inventory:	listed	California Prop. 65 List: not listed
ACGIH:	1 ppm	n alsin and/an aus anntaat
Exposure Routes:		n, skin and/or eye contact
Target Organs:	Eyes, skin, respirat	
Symptoms:		, nose, throat; pulmonary edema, bronchitis; emphysema; conjunctivitis; stomatis;
dental erosion; eye, skin Canada CEPA 1999:	DSL Yes	
LD50 orl rat :	2140 mg/kg	
LC50 ihl mus :	0,85 mg/L/4H	
LOOV III Mus .	0,00 mg/L/411	
	otassium dichromate	CAS No.: 7778-50-9
TSCA Inventory:	listed	California Prop. 65 List: listed cancer, developmental, female, male
ACGIH:	[CrVI] 0.05 mg/m <sup>3</sup>	
Exposure Routes:		n, skin and/or eye contact
Target Organs:		system, liver, kidneys, eyes, skin; [lung cancer]
Symptoms:		/ system; nasal septum perforation; liver, kidney damage; leukocytosis (increased
blood leukocytes), leuko		
Canada CEPA 1999:		chromium compound - Item 33.)
LD50 orl rat :	25 mg/kg	
LC_Low orl gpg :	163 mg/kg	
LC50 ihl rat	0,094 mg/L/4H	ants of boolth when invested in small quantities. May source consitization by skin
		ents of health when ingested in small quantities. May cause sensitization by skin
EU carcinogen:	contact of small amount	
EU carcinogen.	carc. 1B, mutag. 1E	טו וויוס, כ



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NEF. 90	35033	NANOCOLOR COD 300	Page: 8/12
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	Chemical: <i>sil</i> TSCA Inventory: Exposure Routes: Target Organs: Symptoms: Canada CEPA 1999: LD50 orl rat :	ver sulfate CAS No listed inhalation, ingestion, skin and/or eye contact Nasal septum, skin, eyes Blue-gray eyes, nasal septum, throat, skin; irritation, ulceration skin DSL listed 2000-5110 mg/kg	o.: 10294-26-5 ; gastrointestinal disturbance
11.2	Other Hazards		
	Possible endocrine dis	rupting effects	
	data not available		
	Other Information no additional data availa	ble	
SECT	ION 12: Ecological I	nformation	
12.1	Toxicity Following information is va	lid for pure chemicals.	
	4 mL COD 300 (R0)		
	Substance name: <i>m</i> Harmful to aquatic life wi	ercury(II) sulfate CAS-Nr th long lasting effects. Do not release into the environment. bus substances/mixtures do not have to be labeled with P-phrases up to	:: 7783-35-9 125 mL (EU 1272/2008 Annex I
	Paragraph 1.5.2). Bio Toxicity:	LC <sub>50</sub> : 0.5 <sub>HgCl2/48h</sub> mg/L	·
	Water hazard class (DE) Storage class (VCI):		
	Do not release into the e	nvironment.	.: 7664-93-9
	PNEC (fresh water) : PNEC = Predicted No Effected	$2.5 \ \mu g/L$ Concentration = concentration at which no effect on the environment is expected	
	LC50 fish/96h	[NOEC, 65d] 25 µg/L	
	EC50 daphnia/48h: EC10 pseudomonas putita/16	100 mg/L <sub>5h</sub> : [72h] 100 mg/L	
	Water hazard class (DE) Storage class (VCI):	: 1 WGK No.: 0182 8 B	
			.: 7778-50-9
	LC50 fish/96h EC50 daphnia/48h	26.13 mg/L 0.77 mg/L	
	Water hazard class (DE) Storage class (VCI):	: 3 WGK No.: 339 6.1 B	
			.: 10294-26-5
	PNEC (fresh water) : PNEC = Predicted No Effected	$0.04 \ \mu g/L$ Concentration = concentration at which no effect on the environment is expected	
	LC50 daphnia magna/48h	0.22 µg/L	
	LC50 fish/96h: EC10 pseudomonas putita/16		
	Water hazard class (DE) Storage class (VCI):	: 3 12	
2.2	Persistence and Degr	adability	
2.3	Bioaccumulative Pote	ntial	
12.4	Mobility in Soil		
12.5	Results of PBT and vi	PvB Assessment	



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#### 12.6 Endocrine disrupting properties

data not available

#### 12.7 Other Adverse Effects

no additional data available

## **SECTION 13: Disposal Considerations**

Please observe local regulations for collection and disposal of hazardous waste and contact waste disposal company, where you will obtain information on laboratory waste disposal (RCRA Code D002/D003, EU waste code number 16 05 06).

#### 13.1 Waste Treatment Methods

Not necessary, see above.

#### **SECTION 14: Transport Information**

14.1. UN/NA: 3316 14.2. Proper Shipping Nan					
14.3. Hazard Class: 9 14.4. Packing Group: Transportation by Road	II				
Classification code: Limited Quantity:	M11 acc. ADR 3.3.	Tunnel Restri 1/251: see LQ	ction Code: E in "Alternative Declaration	for Transportation"	
Air transport IATA DGR Limited Quantity:	PAX:		960	max. quantity PAX:	10 KG
Linned Quantity.	CAO:		960	max. quantity CAO:	10 KG
Maritime transport IMDG EmS:	F-A, S	-P	Staukategorie:	А	
14.2 UN proper shipping m 14.3 Hazard Class: 8 14.4 Packing group: Road transport ADR Classification Limited Quan Excepted Qua	ll code: tity:	C1 1 L E 2	Tunnel restriction		
<i>Air transport IATA DC</i> Limited Quan Excepted Qua	tity:	PAX: 851 CAO: 855 E 2	max. quantity PA max. quantity CA		
Maritime transport IM EmS: Special instru	ctions:	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 of bulk cargo by sea in accordance with IMO instruments Not applicable.



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#### **SECTION 15: Regulatory Information**

#### 15.1 Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture U.S. Federal Regulations

OSHA "A Guide to The Globally Harmonized System of Classification and Labelling of Chemicals (GHS)" https://www.osha.gov/dsg/hazcom/ghs.html 29 CFR 1910.1200 Hazard communication. NIOSH Pocket Guide to Chemical Hazards NIOSH Workplace Safety & Health Topics TSCA Inventory **U.S. State Regulations** California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986 Canada Canada CEPA 1999 - Domestic Substances List (DSL), List of Toxic Substances (Schedule 1) MN Leaflet/User manual, also see www.mn-net.com

#### 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 Hazard and Precaution 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.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
List of relevant P	Phrases
P260sh	Do not breathe dust/vapors.
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! Look about employee restrictions for pregnant women and nursing women! An individual package of this product or test kit has a moderate hazardous potential.

#### 16.4 Sources of Key Data

KÜHN, BIRETT, Leaflets on hazardous materials, 2021

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

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

Regulation 790/2009/EU, adaptation of Regulation 1272/2008/EU to technical and scientific progress (1st ATP) Regulation 453/2010/EU, adaptation of the REACH regulation 1907/2006/EG

TRGS 907, German technical rules for listing substances and causes of sensitization, updated November 2011 Regulation 487/2013/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (4th ATP) Regulation 1221/2015/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (7th ATP) Regulation 776/2017/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (10th ATP)

Regulation 669/2018/EU, adaptation of Regulation 1272/2008/EC to technical and scientific progressText (11th ATP) Regulation 1480/2018/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (13th ATP) Regulation 521/2019/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (12th ATP)



16.2.2

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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 (15th 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 692/2022/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (18th ATP)

#### revisions/updates

Reason for revision: 2014-02 Corrected structure of the sections according to Regulation 453/2010/EU, if necessary 2014-04 adjustment according Regulation 487/2013/EU 2016-03 adjustment according Regulation 1221/2015/EU

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

#### 16.5 Further Information

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#### 16.6 Legend / Abbreviations

Legena / A	
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 specified)
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:	National Institute for Occupational Safety and Health (US)
NRD:	Non-rapidly degradable
onchorhynchu	
orl:	oral



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# **MACHEREY-NAGEL**

# Safety Data Sheet

## SDS acc. Hazard Communication Standard

Version: 2.2.2.19	

OSHA: PAX: PBT: pH: pimephales p PNEC: PRTR: PVC: quail: rat: rbt: RD: REACh: REF: REACh: REF: Reg.No.: REF: Reg.No.: Repr: SDS: Sens: STEL: STOT: SVHC: t/a: TCCA: Tox: TSCA:	Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat rabbit rapidly degradable repeated Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number rRegistration number harmful to reproduction respiratory sub cutan REACH Implementations Projects 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
TSCA:	The Toxic Substances Control Act (US)
TWA:	time weighted average
TRGS:	technical regulations (DE)
vPvB:	very persistent, very bioaccumulating substance

#### 16.7 Training Advice

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



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