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	Product identifier			
	REF	90722			
	Product name	Ammonium test paper			
		ber(s): see SECTION or the substance(s) does not exist because e is excluded from registration.	3.1/3.2 or ethe annual tonnage does not require registration or		
	1 x 200 strips AM	/MONIUM testpaper (31 g)	UFI: VD0W-A326-W20X-G1YK		
1.2	Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses				
		ssification according REACh, RIP is integrated into sections 1-16.	3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0		
1.3	Details of the supplier of the safety data sheet				
	Manufactured by: MACHEREY-NAGEL Gml Valencienner Str. 11, 523 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. DE: Gemeinsames Giftinformationszentrum (GGIZ) 99089 Erfurt tel. +49 361 730 730, <https: www.ggiz-erfurt.de=""></https:>				
		SDS in Internet:	<http: sds="" www.mn-net.com=""></http:>		

SECTION 2: Hazard identification

H411

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

	GHS06 GHS08 GHS09	
Signal word	DANGER	
Hazard identification	Hazard classes/categories	
H301 H311 H331 H373	Acute Tox. 3 oral Acute Tox. 3 derm. Acute Tox. 3 inh. STOT RE 2	

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

Aquatic Chronic 2

200 strips AMMONIUM testpaper (31 g)





MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11 52355 Düren · Germany www.mn-net.com

DE Tel.: +49 24 21 969-0 info@mn-net.com CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com US Tel.: +1 888 321 62 24 sales-us@mn-net.com



Safety Data Sheet

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	Signal word	DANGER	
	Hazard identification	Hazard classes/categories	
	H301	Acute Tox. 3 oral	
	H311	Acute Tox. 3 derm.	

List of H phrases: see section 16.2

H331

H373

H411

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). 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).

200 strips AMMONIUM testpaper (31 g)



Acute Tox. 3 inh.

Aquatic Chronic 2

STOT RE 2

Signal word: DANGER H301, H311, H331 Toxic if swallowed.Toxic in contact with skin.Toxic if inhaled. P261sh, P280sh, P301+310, P302+352, P405 Avoid breathing dust/vapours.Wear protective gloves/eye protection.IF SWALLOWED: Immediately call a POISON CENTER/ doctor.IF ON SKIN: Wash with plenty of water.Store locked up.

Label elements of the complete product



Signal word: DANGER H301, H311, H331 Toxic if swallowed.Toxic in contact with skin.Toxic if inhaled. P261sh, P280sh, P301+310, P302+352, P405 Avoid breathing dust/vapours.Wear protective gloves/eye protection.IF SWALLOWED: Immediately call a POISON CENTER/ doctor.IF ON SKIN: Wash with plenty of water.Store locked up.

2.3 Other hazards

Possible hazards from physicochemical properties

Information pertaining to particular risks to human and possible symptoms

Cause severe after oral intake, inhalation of vapours, skin contact, impairments of health or can lead to death even when only ingested in small quantities. Can accumulate within the body.

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



- CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com
- FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com
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SECTION 3: Composition / information on ingredients

3.1 Substances or 3.2 Mixtures

200 strips AMMONIUM testpaper (31 g)

Substance name: potassium tetraiodomercurate(II) CAS No.: 7783-33-7

Substance rating: H290, Met. Corr. 1, H301, Acute Tox. 3 oral, H310, Acute Tox. 2 derm., H314, Skin Corr. 1A, H318, Eye Dam. 1, H331, Acute Tox. 3 inh., H373, STOT RE 1, H400, Aquatic Acute 1, H410, Aquatic Chronic 1 Formula: K 2 (Hgl 4) Pseudonym (de): Neßler's Reagenz EC No .: 231-990-4-8 Indice No.: 080-004-00-7 Concentration: 9,8 - <25 % Correlation factor: x 0.26 (= %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) Concentration: acc. CLP (GHS): H301, Acute Tox. 3 oral, H311, Acute Tox. 3 derm., H331, Acute Tox. 3 inh., H373, STOT RE 2, H411, Aquatic Chronic 2

cellulose paper Substance name: CAS No.: 9004-34-6 Substance rating: No criteria for classification or naming of chemical not required. Formula: (C₆H₁₀O₅)_n REACH Reg. No.: exempt, Annex IV 232-674-9 EC No.: Concentration: 60 - < 90 % 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. Take to a doctor, in a raised position if there are breathing difficulties.

4.1.1 After SKIN Contact

Remove dust with wetted tissue. Remove contaminated clothing immediately. Rinse the affected skin or mucous membrane thoroughly for min. 15 minutes under running water. Avoid neutralisation. Then apply a loose bandage.

4.1.2 After EYE Contact

Rub dust with teardrops from eyes or: After contact with the eyes rinse thoroughly under running water with the eyelid wide open with eye washing bottle, eye douche or running water (protect intact eye).

4.1.3 After INHALATION of vapours

If vomiting and if insensible place patient in recovery position and keep airways free. Administer a Dexamethasone spray as soon as possible. Ensure quiet, warmth, and provide resuscitation if necessary. In the event of respiratory distress ensure that the patient inhales oxygen. Secure the breathing, heart and circulatory function. After inhalation of dust fresh air should be inhaled. ---

4.1.4 After ORAL Intake

After oral intake lots of water with activated charcoal supplement should be drunk after it has been ingested.

4.2 Most important symptoms and effects, both acute and delayed

Can accumulate in the body.

4.3 Indication of any immediate medical attention and special treatment needed

After SKIN CONTACT rinse with water for a long time. Apply glucocorticosteroides following inflammatory reactions. In the event of RESPIRATORY DISTREES ensure that the patient inhales oxygen. TOXIFICATION: Treat symptomatically. Secure the breathing, heart and circulatory function. Remove the substance quickly from the body. Mechanically induce vomiting or ensure the patient eats medicinal charcoal compressed tablets or drinks aluminium oxide drug suspensions. In order to ensure rapid passage through the colon (administer 2 tablespoons of dissolved Glauber's salt). Alleviation of pain, if necessary sedation. Shock treatment. Administer a prophylaxis to counter pulmonary oedema. ---



MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11 52355 Düren · Germany www.mn-net.com DE Tel.: +49 24 21 969-0 info@mn-net.com

- CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com
 - FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com

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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

5.2 Special hazards arising from the substance or mixture

5.3 Advice for firefighters

No, for listed product. Product package burns like paper or plastic. 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

Wear suitable protective gloves (see 8.2.2). Wear eye 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

And dispose in accordance to local regulations for the disposal of hazardous chemicals. Clean any contaminated equipment and floors with plenty of water.

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 only in well-ventilated working areas.

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): 6.1B

Water hazard class (DE):

Requirements for stock rooms and containers

Keep original product packages tightly closed during handling and storage, and store in a well-ventilated place at max. 25 °C, away or preferably separate from substances with which a hazardous reaction could take place, 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

200 strips AMMONIUM testpaper (31 g)

assium tetraiodomercurate(II)
[Hg] 0.02 e mg/m ³
[Hg] 0,02 E mg/m ³ E/e respirable

CAS No.: 7783-33-7



7.2.1

MACHEREY-NAGEL GmbH & Co. KGDEValencienner Str. 11CH52355 Düren · GermanyFFwww.mn-net.comUS

 DE
 Tel.: +49 24 21 969-0
 info@mn-net.com

 CH
 Tel.: +41 62 388 55 00
 sales-ch@mn-net.com

FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com US Tel.: +1 888 321 62 24 sales-us@mn-net.com





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	Short-term exposure factor skin resorptive (H), res SUVA(CH) MAK value: SUVA(CH) BAT value: TRGS 903 (DE):	: 8 (II), H, Sh iratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely exclude [Hg][MAK] 0,02 e/[STEL] 0,16 e mg/m ³ [Krea U/d] 35 µg/L [Krea U/a] 25 µg/L	ed / (Y) certainly excluded	
	NIOSH: ITWAI Time-weighted a	B blood, U urine, a no limitation, b end of exposition or shift [Hg vapor, TWA skin] 0.05; other 0.1 mg/m ³ rerage 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>cellulose pa</i> TRGS 900 (DE):	per CAS Staub 1.25 A / 4 E mg/m³ E/e respirable	S No.: 9004-34-6	
	SUVA(CH) MAK value: NIOSH: [TWA] Time-weighted a	3 a ppm TWA 10 (total) / 5 (resp) mg/m³ rerage to a reference period of 8 hours, [STEL] Short-term exposure limit related to	a 15-minute period	
	OSHA:	TWA 15 (total) / 5 (resp) mg/m³		
	xposure controls ne highest level of cleanliness	must be maintained at the workplace.		
3.2.1	Respiratory protection Use for open access of the	Respiratory protection Use for open access of these substances for example a protection filter, class A/AX. No additional recommendations.		
3.2.2	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.			
3.2.3	Eye / Face Protection Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection.			
3.2.4	Skin protection Recommended to avoid contamination with these hazards.			
3.2.5	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.			
3.2.6	Thermal hazards no data available			
	imitation and monitori	ng of environmental exposure ironment.		
SECTION	N 9: Physical and o	hemical properties		

9.1 Information on basic physical and chemical properties

200 strips AMMONIUM testpaper (31 g)

200 strips AMMONIUM testpaper (31 g)	
a) State of aggregation:	solid
b) Colour:	white
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:	no data available
I) Kinematic viscosity:	no data available
m) Solubility in water:	no data available
n) Dispersion coefficient (o/w):	no data available
o) Vapour pressure (20°C):	no data available
p) Specific gravity:	no data available
q) Relative vapour density _(air=1) :	no data available
r) Particle size:	no data available



Valencienner Str. 11 52355 Düren · Germany www.mn-net.com

MACHEREY-NAGEL GmbH & Co. KG DE Tel.: +49 24 21 969-0 info@mn-net.com CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com

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9.2 Other information

Properties relevant to substance groups

SECTION 10: Stability and reactivity

10.1 Reactivity

no further data available.

- 10.2 Chemical stability no known instability.
- **10.3 Possibility of hazardous reactions** No further data available.
- 10.4 Conditions to avoid 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.

200 strips AMMONIUM testpaper (31 g) CAS No.: 7783-33-7 Chemical: potassium tetraiodomercurate(II) California Proposition 65 List: listed developmental **TSCA** Inventory: listed Exposure Routes: inhalation, skin absorption, ingestion, skin and/or eye contact Target Organs: Eyes, skin, respiratory system, central nervous system, kidneys irritation eyes, skin; cough, chest pain, dyspnea (breathing difficulty), bronchitis, pneumonitis; tremor, Symptoms: insomnia, irritability, indecision, headac Japan CSCL/PRTR: PRTR: ≥1,0%Hg class I, Japan PDSCL: Poisonous substance listed ≥0,3%/≥0,1% Japan ISHL: Korea Exist.Chem.Inventory: KE-12197, Toxic 97-1-140 LD50 orl rat : 18 (Hgl 2) mg/kg LC Low orl hmn : 357 mg/kg Acute Effects: Cause severe after oral intake, inhalation of vapours, skin contact, impairments of health or can lead to death even when only ingested in small quantities. Chronic Effects: May cause damage to organs through prolonged or repeated exposure. TRGS 907 (DE): Sh Chemical: cellulose paper CAS No.: 9004-34-6

TSCA Inventory:	listed	California Proposition 65 List: not listed
Exposure Routes:	inhalation, skin and/o	r eye contact
Target Organs:	Eyes, skin, respirator	y system
Symptoms:	irritation eyes, skin, m	nucous membrane
Australia NICNAS:	not listed	Canada CEPA 1999: DSL yes
Japan CSCL/PRTR:	not listed, Japan PDS	CL: not listed
Japan ISHL:	not listed	
South Korea TCCA:	not listed	
Korea Exist.Chem.Inventory:	KE-05339	
LD50 orl rat :	> 5000 mg/kg	
LC50 ihl rat :	> 5,800 mg/L/4H	



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CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com





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11.2	Other hazards		
	Possible endocrine disruptir no data available	ig effects	
	Other information no additional data available		
SECT	ION 12: Ecological info	mation	
12.1	Toxicity		
	Following information is valid for	pure substances.	
	Toxic to aquatic life with long la		
	Chemical: cellulose Water hazard class (DE): Storage class (VCI):	e paper C nwg 11	CAS No.: 9004-34-6
12.2	Persistence and degradab not necessary	ility	
12.3	Bioaccumulative potential not necessary		
12.4	Mobility in soil not necessary		
12.5	Results of PBT and vPvB a This substance/mixture contains no and very bioaccumulative (vPvB) at	components considered to be either persistent, bioaccumu	lative and toxic (PBT) or very persisten
12.6	Endocrine disrupting prop no data available	erties	
12.7	Other adverse effects no additional data available		

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

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	Tunnel restriction co	de: E	
Limited Quantity:	acc. ADR 3.3	.1/251: see LQ in Alter	rnative declaration for transportation	
Air transport ICAO				
PAX:	960	max. weight PAX:	10 KG	
CAO:	960	max. weight CAO:	10 KG	
Maritime transport IM	IDG			
EmS:	F-A, S-P	Storage category:	A	

Or use Alternative declaration for transportation:



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14.1 UN number:	3288				
		c solid, inorganic, n.o.	s. (potassium tetraiod	domercurate(II) mixture)	
14.3 Class:	6.1 14.4 Pac	king group: II			
Road transport ADR	2				
Classification code:	T5				
Limited Quantity:	500 g	Tunnel restriction co	ode: E		
Excepted Quantity:	E4				
Air transport ICAO					
Limited Quantity:	LQ 18				
Excepted Quantity:	E 4				
PAX:	669		max. weight PAX:	25 Kg	
CAO:	676		max. weight CAO:	100 Kg	
Maritime transport II	MDG		0	-	
EmS:	F-A, S-A	Storage category:	В		

14.5 Environmental hazards

none, 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

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 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

16.2 List of H and P phrases

in preparation

List of relevar	nt H phrases
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
List of relevar	nt P phrases
P261sh	Avoid breathing dust/vapours.



16.2.1

16.2.2

 DE
 Tel.: +49 24 21 969-0
 info@mn-net.com

 CH
 Tel.: +41 62 388 55 00
 sales-ch@mn-net.com

 FR
 Tel.: +33 388 68 22 68
 sales-fr@mn-net.com

 US
 Tel.: +1 888 321 62 24
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P280sh	Wear protective gloves/eye protection.
P301+310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P302+352	IF ON SKIN: Wash with plenty of water.
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

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 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) 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

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

16.5 **Further information**

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

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16.6 Legend / Abbreviations

according acc 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 Classification, Labelling and Packaging regulation CLP: CMR: carcinogen, mutagen, reproduction toxic Corr: corrosive COD: chemical oxigen demand CSCL: Chemical Substance Control Law (Jp) Dam. damade DNEL: Derived No-Effect Level (for workers) derm: dermal dog: dog EC10: Concentration causing a toxic effect in 10% of the test organisms

European Community EC:



MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11 52355 Düren · Germany www.mn-net.com US Tel.: +1 888 321 62 24 sales-us@mn-net.com

DE Tel.: +49 24 21 969-0 info@mn-net.com CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com

MA CHEREY-NAGEL

Safety Data Sheet

according to Regulations REACh 1907/2006/EC

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EC-Nr: EmS:	Substance number of the EC substance inventory 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: Muta:	mouse
NIOSH:	mutagen 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 pr	omelas: 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
RD: RE:	rapidly degradable
REACh:	repeated Registration Evoluation Authorization and Restriction of Chamicala
REF:	Registration, Evaluation, Authorisation and Restriction of Chemicals 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:	tons per year
TCCA:	Toxic Chemicals Control Act (S. Korea)
Tox: TSCA:	toxic The Toxic Substances Control Act (US)
TWA:	The Toxic Substances Control Act (US) 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.



Valencienner Str. 11 52355 Düren · Germany www.mn-net.com

MACHEREY-NAGEL GmbH & Co. KG DE Tel.: +49 24 21 969-0 info@mn-net.com CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com

FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com