MACHEREY-NAGEL



Safety Data Sheet

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

REF: 90722	Ammonium test paper	Page: 1/8
Printing date: 17.03.2017	Date of issue: 28.02.2017	

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

1.1 Product identifier

REF Product name 90722 Ammonium test paper

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.

1 x 200 strips AMMONIUM testpaper (31 g)

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

Relevant identified uses

Product for analytical use. Exposure Scenario Classification according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0 The exposure scenario is integrated into sections 1-16. Uses advised against not described

1.3 Details of the supplier of the safety data sheet

Manufactured by:

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

E-mail: 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

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

200 strips AMMONIUM testpaper (31 g)

Directive 1999/45/EC

Symbols

T+

R 26/27/28-33

CLP Directive 1272/2008/EC

GHS pictograms

Signal word



DANGER

Hazard identificationHazard classes/categoriesH301Acute Tox. 3 oralH311Acute Tox. 3 derm.H331Acute Tox. 3 inh.H373STOT RE 2H411Hazardous to the aquatic environment - chronic cat. 2



Version: 2.4.2

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2.2 Label elements

According CLP (GHS) inner packages must be only labelled with symbol(s) and product identificator (EU 1272/2008 Annex I - 1.5.1.2).

200 strips AMMONIUM testpaper (31 g)

Directive 1999/45/EC Symbols:

T+

```
R 26/27/28-33
```

Very toxic by inhalation, in contact with skin and if swallowed. Danger of cumulative effects.

S 13-28-45-60-61

Keep away from food, drink and animal feedingstuffs. After contact with skin, wash immediately with plenty of water. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/Safety data sheets.

CLP Directive 1272/2008/EC GHS pictograms:



Signal word: DANGER

H301, H311, H331 Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.

P261sh, P280sh, P302+352, P311, P405 Avoid breathing dust/vapours. Wear protective gloves/eye protection. IF ON SKIN: Wash with plenty of water/... Call a POISON CENTER/doctor/... 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
- Other Hazards

SECTION 3: Composition/Information on Ingredients

3.1 Substances or 3.2 Mixtures

200 strips AMMONIUM testpaper (31 g)



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	Ammonium test pap	ber		Page: 3/8
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ical: potassiun	n tetraiodomercurate(II)		CAS No.: 7783-33-7	
		Correlation factor: x	x 0.26 (= %Hg)	
S: 0	0U9670000	Indice No.:	080-004-00-7	
		acc. CLP (GHS):	H301, H311, H331, H373, H41 ⁻	1
entration: 11 Ila: (0 H Reg. No.: e: 0.: 2 S: 7 S: F Inventory: Ilis 0.: K	0 - <80 % C ₆ H ₁₀ O ₅) _n xempt, Annex IV 32-674-9 J5691460 sted		CAS No.: -	
	ntration: 9 la: K la: Z S: C Inventory: Iii .: K 999/45/EC: R cal: filter pape ntration: 1 la: (0 H Reg. No.: e o.: 2 S: F Inventory: Iii	Date of issue: 28.02 cal: potassium tetraiodomercurate(II) ntration: 9,8 - <25 %	Intration: 9,8 - <25 % Correlation factor: x Ia: K2 (HgI4) Indice No.: S: OU9670000 Indice No.: Inventory: listed Indice No.: S: OU9670000 Indice No.: Inventory: listed Indice No.: S: OU9670000 Indice No.: S: OU9670000 Indice No.: S: Correlation factor: x x 999/45/EC: R 26/27/28-33-51/53 acc. CLP (GHS): cal: filter paper (cellulose CAS 9004-34-6) ntration: ntration: 10 - <80 %	Date of issue: $28.02.2017$ cal: potassium tetraiodomercurate(II) CAS No.: $7783-33-7$ ntration: 9,8 - <25 % Correlation factor: $x 0.26$ (= %Hg) la: K ₂ (Hgl ₄) Indice No.: 080-004-00-7 S: OU9670000 Indice No.: 080-004-00-7 Inventory: listed CL 080-004-00-7 S: OU9670000 Indice No.: 080-004-00-7 S: C 6/27/28-33-51/53 acc. CLP (GHS): H301, H311, H331, H373, H417 cal: <i>filter paper (cellulose CAS 9004-34-6)</i> CAS No.: - ntration: 10 - <80 % CAS No.: - la: (C6 H ₁₀ O ₅) _n CAS No.: - H Reg. No.: exempt, Annex IV Exempt, Annex IV M: 232-674-9 S: F J5691460 Inventory: listed KE-05339

3.3 Remarks

List of R, H and P phrases: see section 16.

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.

After ORAL Intake 4.1.4

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

Avoid inhalation of dust. Can accumulate within 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.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area. All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used.

5.2 Special hazards arising from the substance or mixture



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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

not necessary, contains only small amounts of these substances

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 ---

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.

7.2 Conditions for safe storage, including any incompatibilities

The original product package of MACHEREY-NAGEL allows a safe storage. Products containing also toxic substances should be kept locked up.

Storage class (VCI): Water hazard class (DE): 6.1B 3

7.2.1 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 tes Chemical: potassium tet EU value: TRGS 900 (DE):	tpaper (31 g) raiodomercurate(II) 0.02 _{Hg} e mg/m ³ 0,02 _{Hg} E mg/m ³ E/e respirable	CAS No.: 7783-33-7
Short-term exposure factor: skin resorptive (H), respiratory set	8 (II), H, Sh nsitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely exclu	ded / (Y) certainly excluded
SUVA(CH) MAK value: SUVA(CH) BAT value: TRGS 903 (DE):	0,1 e mg/m³ Krea U/d 35 μg/L U/a 25 _{Kreatinin} μg/L Β blood, U urine	
NIOSH: OSHA:	Hg Vapor: TWA _{skin} 0.05; other 0.1 mg/m³ TWA 0.1 mg/m³	
Chemical: filter paper (c	ellulose CAS 9004-34-6)	CAS No.: -
TRGS 900 (DE):	1.25 A / 4 E mg/m ³ E/e respirable	
SUVA(CH) MAK value: NIOSH: OSHA:	3 a mg/m³ not listed not listed	

EN ISO 9001: 2008

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8.2 Exposure controls

The highest level of cleanliness must be maintained at the workplace.

8.2.1 Respiratory Protection

Use for open access of these substances for example a protection filter, class A/AX. No additional recommendations.

8.2.2 Hand Protection

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

8.2.3 Eye Protection

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

8.2.4 Skin Protection

Recommended to avoid contamination with these hazards.

8.2.5 Personal Hygiene

Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

200 strips AMMONIUM testpaper (31 g) Appearance: solid

Color: white

Odor: odorless

9.2 Other information

Relevant Properties of Substance Group

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

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

Not necessary. ---

10.5 Incompatible materials

Avoid contact with concentrated acids and oxidizing agents. Avoid contact with strong acids or alkalines.

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 substances.

200 strips AMMONIUM testpaper (31 g)

Chemical:	potassium tetraiodomercurate(II)		CAS No.: 7783-33-7	
TSCA Inventory:	listed Calif	ornia Proposition 65	List: listed developmental	
Exposure Routes:	inhalation, skin absorption,	ingestion, skin and/	or eye contact	
Target Organs:	Eyes, skin, respiratory syst	em, central nervous	system, kidneys	
Symptoms:	irritation eyes, skin; cough,	chest pain, dyspne	a (breathing difficulty), bronchitis, pneumonit	is; tremor,
insomnia, irritability, i	ndecision, headac			
Japan CSCL/PRTR:	PRTR: ≥1,0%Hg class I			
Japan PDSCL:	Poisonous substance	Japan ISHL:	listed ≥0,3%/≥0,1%	

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Printing d	ate: 17.03.2017	Date of issue: 28.02.2017	
SECTIO	LD50 _{orl rat} : LC_Low _{orl hmn} : LD50 _{drm rat} : Acute Effects: Cause seve when only ingested in sma Chronic Effects: May caus TRGS 907 (DE):	e damage to organs through prolonged or repeated exposure. Sh paper (cellulose CAS 9004-34-6) CAS No. listed California Proposition 65 List: not listed not listed Canada CEPA 1999: DSL yes not listed not listed Japan ISHL: not listed not listed ry: KE-05339 >5000 mg/kg >5800 _{4h} mg/m ³ >2000 mg/kg	
2.1	Toxicity Following information is vali 200 strips AMMONIUM te	d for pure substances. estpaper (31 g)	
	Toxic to aquatic life w	th long lasting effects. Avoid contact of substance/mixture to environme s must not be labelled with H and P phrases until 125 mL (EU 1272/200 LC ₅₀ : 0.5 _{HgCl2/48h} mg/L	: No.: 7783-33-7 nt. 8 Annex I - 1.5.2).
	Chemical: Water hazard class (I Storage class (//Cl):		5 No.: -

12.2 Persistence and degradability

not necessary

- 12.3 **Bioaccumulative potential** not necessary
- 12.4 Mobility in soil not necessary
- 12.5 Results of PBT and vPvB assessment no data available

Storage class (VCI):

12.6 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 (waste code number 16 05 06). Close container tightly.

13.1 Waste treatment methods

Dispose of contents/container to regulated waste treatment.



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ECTION 14: Tra	nsport information	
14.1. UN number: 14.3. Class: Road transport	 3316 14.2. UN proper shipping name: Chemical Kit 9 14.4. Packing group: II 	
Classification code: Limited Quantity: Air transport	M11 Tunnel restriction code: E acc. ADR 3.3.1/251: see LQ in Alternative transport labelling	
PAX: CAO: <i>Maritime transport</i>	960max. weight PAX:10 KG960max. weight CAO:10 KG	
EmS:	F-A, S-P Storage category: A	
Alternative transpor	t labelling follows:	
14.1 UN number:	3288	
	3288 pping name: Toxic solid, inorganic, n.o.s. (potassium tetraiodomercurate(II) mixture) 6.1 14.4 Packing group: II	
14.2 UN proper shi 14.3 Class: Road transport Classification code: Limited Quantity: Excepted Quantity:	pping name: Toxic solid, inorganic, n.o.s. (potassium tetraiodomercurate(II) mixture)	
14.2 UN proper shi 14.3 Class: Road transport Classification code: Limited Quantity:	pping name: Toxic solid, inorganic, n.o.s. (potassium tetraiodomercurate(II) mixture) 6.1 14.4 Packing group: II T5 500 g Tunnel restriction code: E	

not necessary, contains only small amounts of these substances

- 14.6 Special precautions for user not necessary
- 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code not applicable

SECTION 15: Regulatory Information

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

German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on August 2013 German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung -GefStoffV), revised on November 2010, according to Directive 98/24/EC

TRGS 200, German engineering rules governing the classification and labelling of hazardous substances, preparations and products, updated October 2011

15.2 Chemical safety assessment

not necessary for these small amounts

SECTION 16: Other Information

16.1 List of R, H and P phrases

16.1.1 List of relevant R phrases R26/27/28 Very toxic by inhalation, in contact with skin and if swallowed. R33 Danger of cumulative effects. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. 16.1.2 List of relevant H phrases Toxic if swallowed. H301 H311 Toxic in contact with skin. H331 Toxic if inhaled. May cause damage to organs through prolonged or repeated exposure. H373 Toxic to aquatic life with long lasting effects. H411

16.1.3 List of relevant P phrases



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P260sh	Do not breathe dust/vapours.	
P261sh	Avoid breathing dust/vapours.	
P273	Avoid release to the environment.	
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/	
P304+340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P311	Call a POISON CENTER/doctor/	
P312	Call a POISON CENTER/doctor//if you feel unwell.	
P403+233	Store in a well-ventilated place. Keep container tightly closed.	
P405	Store locked up.	

16.2 **Training Advice**

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

16.3 **Recommended Restriction on Use**

Only for professional user.

Look about employee restrictions for young people (f. ex. 94/33/EC or DE § 22 JArbSchG)! Look about employee restrictions for pregnant women and nursing women (f.ex. 92/85/EEC or DE §§ 4 und 5 MuSchRiV)! An individual package of this product or test kit has a moderate hazardous potential.

16.4 **Further Information**

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

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16.5 Sources of Key Data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS Regulation 487/2013/EU, 4th adaptation of CLP regulation to technical and scientific progress TRGS 900, German engineering rules governing limits in air at work, updated September 2016 SUVA .CH, Limits in air at work 2009, revised on 01.2009 Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances) KÜHN, BIRETT

Revisions/Updates

Reason for Revision: 2016-03 Adaptation of regulation 1221/2015/EU

You find our current versions of MSDS in Internet: http://www.mn-net.com/MSDS

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