

according to Directive 1907/2006/EC (REACh) and 453/2010/EU

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#### 1 Identification of the Substance/Mixture and of the Company

#### 1.1 Product identifier

REF Product name 91315 QUANTOFIX Ammonium / 100

2 x 30 mL Ammonium-1

1 x 100 Test sticks Ammonium

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

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.

#### 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

Missing subsections are not relevant for the risk assessment of the product and may be omitted programmatically.

#### 2 Hazard Identification

#### 2.1 Classification of the substance(s) or mixture(s) - in the complete product

Directive 1999/45/EC Symbols

R

CLP Directive 1272/2008/EC GHS pictograms



C

R 35

Signal word	DANGER
Hazard identification	Hazard classes/categories

#### 2.2 **Hazard Description**

### **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. Can accumulate within the body.

### Information pertaining to particular Risks to the Environment

--- Avoid contact of substance/mixture to environment. -



Version: 1.0

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	Other Hazards				
2.3	Other hazards: Description	on of the components			
	30 mL Ammonium-1				
	Directive 1999/45/EC				
	Symbols	R 35			
		С			
	CLP Directive 1272/2008	3/EC			
	GHS pictograms	•			
		E B			
	Circa el usard	GHS05			
	Signal word	DANGER			
	Hazard identification H314	Hazard classes/catego			
	H314	Skin Corrosion 1A. Seric	us Damage to Eyes T		
	100 Test sticks Ammonium				
	Directive 1999/45/EC	_			
	Symbols	do not need labelling as	hazardous		
	CLP Directive 1272/2008	3/EC			
	GHS pictograms	do not need labelling as			
	Signal word	do not need labelling as	nazardous		
	No hazard class				
3	Composition/Informatio	n on Ingredients			
3.1	Substances or 3.2 Mixture	-			
5.1		55			
		m hydroxide solution		CAS No.: 1310-73-2	
	Concentration: Formula:	20 - 55 % NaOH•H <sub>2</sub> O			
	Pseudonym: soda REACH Reg. No.:	lye 01-2119457892-27-xxxx			
	EC No.: RTECS:	215-185-5 WB4900000	Indice No.:	011-002-00-6	
	TSCA Inventory:	listed			
	acc. 1999/45/EC:	R 35	acc. CLP (GHS):	H314	
	100 Test sticks Ammonium	sium tetraiodomercurate(II)		CAS No - 7702 22 7	
	Concentration:	< 0,10 %	Correlation factor: >	CAS No.: 7783-33-7 ( 0.26 (= %Hg)	
	Formula: EC No.:	K <sub>2</sub> (Hgl <sub>4</sub> ) 231-990-4-8	Indice No.:	080-004-00-7	
	RTECS: TSCA Inventory:	OU9670000 listed			
		liotou		not nocossany	

acc. CLP (GHS): not necessary



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acc. 1999/45/EC:

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Chemical: <i>filter</i> Concentration: Formula: REACH Reg. No.: EC No.: RTECS: TSCA Inventory:	paper (cellulose CAS 9004-34-6) 1 - 10 % (C <sub>6</sub> H <sub>10</sub> O <sub>5</sub> ) <sub>n</sub> exempt, Annex IV 232-674-9 FJ5691460 listed		CAS No.: -	
acc. 1999/45/EC:	-	acc. CLP (GHS):	not necessary	
Chemical: PVC Concentration:	foil (CAS 9002-86-2) 95 - 100 %		CAS No.: -	
acc. 1999/45/EC:	-	acc. CLP (GHS):	not necessary	

#### 3.2 Remarks

List of R and H phrases: see chapter 16

#### **First Aid Measures** 4

#### Description of first aid measures 4.1

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

Remove dust with wetted tissue. 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

Rub dust with teardrops from eyes or: 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.

#### After INHALATION of Vapours 4.1.3

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. 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. Do not induce vomiting under any circumstances. Do not make any efforts to neutralise it. Contact medical advice for possible consequences.

#### 4.2 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.

#### 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

Formation of hazardous and caustic vapour-air mixtures possible. Danger for environment only in the event of a large-scale leakage or formation of hazardous substances.

#### 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.

#### Additional Information 5.4



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#### 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures 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 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.

#### 7 Handling and Storage

#### 7.1 Precautions for safe handling

Handling in accordance with the test instruction, that comes with the product.

#### 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

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.

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

#### 8.1 **Control parameters**

-			
30 mL Ammonium-1			
Chemical: sodium hydro			CAS No.: 1310-73-2
TRGS 900 (DE):	(2 E) mg/m³ E/e respirable		
Short-term exposure factor: skin resorptive (H), respiratory se	=1= nsitizable (Sa), skin sensitizable (Sh)	, teratogenic (Z) not securely	y excluded / (Y) certainly excluded
SUVA(CH) MAK value:	2 e mg/m <sup>3</sup>		
Australia NICNAS:	not listed	Canada CEPA 1999	: DSL Yes
Japan CSCL/PRTR:	not listed		
Japan PDSCL:	not listed	Japan ISHL:	Article 57-2 (SDS required)
South Korea TCCA:	not listed		
TSCA Inventory:	listed	California Propositio	in 65 List: not listed
NIOSH: OSHA:	2 mg/m <sup>3</sup> TWA 2 mg/m <sup>3</sup>		
USHA.	TWA 2 mg/m²		
100 Test sticks Ammoniu			CAS No.: 7783-33-7
Chemical: potassium tet EU value:	traiodomercurate(II) 0.02 <sub>Ha</sub> e mg/m <sup>3</sup>		CAS NO //03-33-/
TRGS 900 (DE):			
11(00 500 (DE).	0,02 <sub>Hg</sub> E mg/m³ E/e respirable		
Short-term exposure factor:	8 (II), H, Sh		
	nsitizable (Sa), skin sensitizable (Sh)	, teratogenic (Z) not securel	y excluded / (Y) certainly excluded
SUVA(CH) MAK value:	0,1 e mg/m³		
SUVA(CH) BAT value:	Krea U/d 35 µg/L		
TRGS 903 (DE):	U/a 25 <sub>Kreatinin</sub> µg/L B blood, U urine		
TRGS 907 (DE):	Sh		
TSCA Inventory:	listed	California Propositio	n 65 List: listed developmental
NIOSH:	Hg Vapor: TWA <sub>skin</sub> 0.05; oth		
OSHA:	TWA 0.1 mg/m <sup>3</sup>	5	
	-		
	ellulose CAS 9004-34-6)		CAS No.: -
TRGS 900 (DE):	4 E mg/m <sup>3</sup> E/e respirable		
SUVA(CH) MAK value:	3 a mg/m <sup>3</sup>		
Australia NICNAS:	not listed	Canada CEPA 1999	<sup>)</sup> DSL ves
Japan CSCL/PRTR:	not listed		
Japan PDSCL:	not listed	Japan ISHL:	not listed
South Korea TCCA:	not listed		
TSCA Inventory:	listed	California Propositio	n 65 List: not listed
NIOSH:	not listed		
OSHA:	not listed		



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	Chemical: PVC for	il (CAS 9002-86-2)	CAS No.: -	
3.2	Exposure controls The highest level of cleanl	iness must be maintained at th	e workplace.	
3.2.1	Respiratory Protecti			
8.2.2			min - level 2), consist of PVC, natural latex, Neop gloves with code EN 374-3 level 1.	oren, or Nitril (f.ex. from Ansel
8.2.3	<b>Eye Protection</b> Yes, safety glasses a	ccording EN 166 with integrate	d side shields or wrap-around protection or face p	rotection.
3.2.4	Skin Protection Recommended to avo	id clothing damage, and to avo	id contamination with these hazards.	
8.2.5	with the skin, eyes an	d clothing. Rinse any clothing o	f food in work areas and at outdoor workplaces is in which the substance has been spilled, and soa and before eating, and then apply protective skin	k it in water. Wash hands
9 F	Physical and Chem	ical Properties		
9.1	Information on basi	c physical and chemica	al properties	
	<b>30 mL Ammonium-1</b> Color: colourless	Odor: odorless	Appearance: liquid	
	100 Test sticks Amn Color: yellow	nonium Odor: odorless	Appearance: solid	
).2	Other information			
.2.1	Safety relevant Basi	s Data		
	<i>30 mL Ammoniul</i> pH: Specific gravity: Solubility in wate	14 1,35 g/mL		
	100 Test sticks A	mmonium		
9.2.2	Relevant Properties	of Substance Group		
9.3	Additional Information not necessary	on		
10 \$	Stability and React	vity		
10.1	Conditions to avoid			
10.2	Incompatible mater		ts. Avoid contact with strong acids or alkalines.	
10.3	Hazardous decomp	osition products parts/all reagents are safety ar	d separated stored. Decompositions are not obse	erved during the expiration
11 7	Foxicological infor	nation		
	11.1 Information on toxic	ological effects	uantitative data on the toxicity of this product are	not available.
	30 mL Ammonium-1	-		-
		sodium hydroxide solution 500 <sub>100%</sub> mg/kg	CAS No.: 13	10-73-2

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100 Test stic	ks Ammonium	
Chemical: LD50 <sub>orl rat</sub> : LC_LOW <sub>orl hr</sub> LD50 <sub>drm rat</sub> :	potassium tetraiodomercurate(II) Hgl₂ 18 mg/kg m : 357 mg/kg	CAS No.: 7783-33-7
Chemical: LD50 <sub>orl rat</sub> : LC50 <sub>ihl rat</sub> : LD50 <sub>drm rbt</sub> :	filter paper (cellulose CAS 9004-34-6) >5000 mg/kg >5800 <sub>4h</sub> mg/m³ >2000 mg/kg	CAS No.: -
Chemical:	PVC foil (CAS 9002-86-2)	CAS No.: -
12 Ecological inf 12.1 Toxicity	ormation	
Following inform	nation is valid for pure substances.	
<b>30 mL Amm</b> Chemic LC50 <sub>leu</sub> LC50 <sub>fist</sub> EC50 <sub>da</sub> WGK (E	ionium-1   al: sodium hydroxide solution   ciscus idus/96h : 35-189 mg/L   v96h : 45.4 mg/L   opnia/48h : >100 mg/L	CAS No.: 1310-73-2
Chemic Bio Tox WGK (E	icity: LC <sub>50</sub> : 0.5 <sub>HgCl2/48h</sub> mg/L	CAS No.: 7783-33-7
Chemic WGK (E Storage		CAS No.: -
Chemic	al: PVC foil (CAS 9002-86-2)	CAS No.: -

## **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).

### 13.1 Waste treatment methods

Empty containers of corrosive reagents prior to disposal, rinse with water.

## 14 Transport Information

14.1 UN No.:	3316	14.2 Proper shipping name: Chemical Kit
14.3 Class:	9	14.4 Packing group: II
Road transport		
Classification code:	M11	Tunnel restriction code: E
Limited Quantity:	LQ 0 (	acc. ADR 3.3.1/251: see LQ in Alternative Transport Labelling)
Air transport		
PAX:	960	max. weight PAX: 10 KG
CAO:	960	max. weight CAO: 10 KG
Maritime transport		-
EmS:	F-A, S	-P Storage category: A

Alternative Transport Labelling follows:

Class 8 II, excepted quantities (≤30 mL/∑≤500 mL) = ADR/ IATA E2

14.1 UN No.:	3266	14.2 Proper shipping name: <b>Corrosive liquid, basic, inorganic, n.o.s. (sodium hydroxide solution)</b>
14.3 Class:	8	14.4 Packing group: II
Road transport		
Classification code:	C5	



Version: 1.0

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Limited Quantity: Excepted Quantity: Air transport	LQ22 E 2	Tunnel restriction code: E	
PAX: CAO: Maritime transport	851 855	max. weight PAX: 1 L max. weight CAO: 30 L	
EmS:	F-A, S-B	Storage category: B	

## 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

Announcement BekGS 220 (DE), Safety Data Sheet, June 2013

According GHS inner packages must be only labelled with symbol(s) and product identificator.

## 30 mL Ammonium-1

Directive 1999/45/EC Symbols:



C R 35 Causes severe burns.

S 26-37/39-45

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

CLP Directive 1272/2008/EC GHS pictograms:



Signal word: DANGER

H314

Causes severe skin burns and eye damage.

P260D, P280sh, P301+330+331, P303+361+353, P304+340, P305+351+338, P501 Do not breathe vapours. Wear protective gloves/eye protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Dispose of contents/container to regulated waste treatment.

### **100 Test sticks Ammonium**

Directive 1999/45/EC Symbols:



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CLP Directive 1272/2008/EC GHS pictograms: do not need labelling as hazardous Signal word: -

15.2 Chemical safety assessment not necessary for these small amounts

## **16 Other Information**

### 16.1 List of R and H phrases

16.1.1 List of relevant R phrases

R35 Causes severe burns.

16.1.2 List of relevant H phrases H314 Causes se

Causes severe skin burns and eye damage.

### 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, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress TRGS 900, German engineering rules governing limits in air at work, updated July 2012 SUVA .CH, Limits in air at work 2009, revised on 01.2009 KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances

### 16.6. Revisions/Updates

Reason for Revision: 2014-02 Corrected structure of sections acc. regulation 453/2010/EU, if necessary 2014-04 Adaptation of regulation 487/2013/EU

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

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