

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

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

1.1 **Product identifier**

RFF Product name 92118 pH-Fix 2.0-9.0

1 x 100 Indicator sticks

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. If CE labelling: Product for in-vitro-diagnostic use (IVD) or Accessory for medical use Uses advised against not described

E-mail: msds@mn-net.com

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

1.4 Emergency telephone number

Information not necessary.

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

100 Indicator sticks

Directive 1999/45/EC

Symbols

do not need labelling as hazardous

CLP Directive 1272/2008/EC GHS pictograms

do not need labelling as hazardous

No hazard class

Signal word

2.2 Label elements

100 Indicator sticks

Directive 1999/45/EC Symbols:

- S 22 Do not breathe dust.
- CLP Directive 1272/2008/EC GHS pictograms: do not need labelling as hazardous Signal word: -

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2.3 Other hazards

Possible Hazards from physicochemical Properties

According to our current status of knowledge and experience we state, that this product does not contain any substances, which - in accordance with EC regulations 1272/2008/EC, 1907/2006/EC, 1999/45/EC and German Regulations for Hazardous goods - have to be declared as dangerous goods, either because of their applied concentration or because of their total amount in anyone kit.

An individual package has considerably less hazardous potential.

Information pertaining to particular Risks to Human and possible Symptoms

Information pertaining to particular Risks to the Environment

Other Hazards

SECTION 3: Composition/Information on Ingredients

3.1 Substances or 3.2 Mixtures

Formula: (REACH Reg. No.: e EC No.: 2 RTECS: F TSCA Inventory: li	1 - 10 % C ₆ H ₁₀ O ₅) _n exempt, Annex IV 232-674-9 FJ5691460 isted KE-05339		CAS No.: 9004-34-6
acc. 1999/45/EC: -		acc. CLP (GHS):	not necessary
Chemical: <i>indicator</i> Concentration: 0	<i>dye(s)</i> 0.01 - 0.1 %		CAS No.: -
acc. 1999/45/EC: -		acc. CLP (GHS):	not necessary
	(CAS 9002-86-2) 95 - 100 %		CAS No.: -
acc. 1999/45/EC: -		acc. CLP (GHS):	not necessary

3.3 Remarks

- - -

SECTION 4: First aid measures

4.1	Description of first aid measures Place insured person out of danger zone to fresh air immediately.
4.1.1	After SKIN Contact Not necessary. Remove dust with wetted tissue.
4.1.2	After EYE Contact Not necessary. Rub dust with teardrops from eyes
4.1.3	After INHALATION of Vapours Not necessary. After inhalation of dust fresh air should be inhaled.
4.1.4	After ORAL Intake Not necessary.
4.2	Most important symptoms and effects, both acute and delayed Avoid inhalation of dust.

4.3 Indication of any immediate medical attention and special treatment needed No additionally recommendations.



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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 None.
5.3	Advice for firefighters No, for listed product. Product package burns like paper or plastic.
5.4	Additional Information
SECI	FION 6: Accidental release measures
6.1	Personal precautions, protective equipment and emergency procedures Not necessary.
6.2	Environmental precautions not necessary
6.3	Methods and material for containment and cleaning up Clean working area with water. Flush used water into drains.
6.4	Reference to other sections
SECT	FION 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 section 12.1
7.2.1	Requirements for Stock Rooms and Containers Keep original product packages tightly closed during handling and storage.
7 2	Specific and use(a)

7.3 Specific end use(s) Product for analytical use.

If CE labelling: Product for in-vitro-diagnostic use (IVD) or Accessory for medical use

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

100 Indicator sticks Chemical: <i>cellulose</i> TRGS 900 (DE):	Staub 1.25 A / 4 E mg/m³	CAS No.: 9004-34-6
SUVA(CH) MAK value: NIOSH: OSHA:	E/e respirable 3 a ppm TWA 10 (total) / 5 (resp) mg/m³ TWA 15 (total) / 5 (resp) mg/m³	
Chemical: indicator dye(s)	CAS No.: -
Chemical: PVC foil (CAS	\$ 9002-86-2)	CAS No.: -

8.2 Exposure controls

Not necessary.

8.2.1 Respiratory Protection Not necessary.

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8.2.2	Hand Protection Not necessary.			
8.2.3	Eye Protection Not necessary.			
8.2.4	Skin Protection Not necessary.			
8.2.5	Personal Hygiene Information not necessary.			
SECI	TION 9: Physical and chen	nical properties		
9.1	Information on basic physic	al and chemical propertie	es la	
	100 Indicator sticks Appearance : solid	Color : colored	Odor : odorless	
9.2	Other information Relevant Properties of Substance G	Group		
9.2.1				
	-			
SECT	FION 10: Stability and read	tivity		
10.1	Reactivity None			
10.2	Chemical stability No known instability.			
10.3	Possibility of hazardous rea None.	ctions		
10.4	Conditions to avoid			
10.5	Incompatible materials Not necessary. Avoid contact with concentrated acids and oxidizing agents.			
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.			
SECT	FION 11: Toxicological inf	ormation		
11.1	Information on toxicological Following information is valid for p	effects		
	100 Indicator sticks			
	Chemical: cellulose TSCA Inventory: liste Exposure Routes: inb	ed California Proposition	CAS No.: 9004-34-6 65 List: not listed	

Chemical:	cellulose		CAS No.: 9004-34
TSCA Inventory:	listed	California Proposition 65 List: not list	ted
Exposure Routes:	inhalation, skir	n and/or eye contact	
Target Organs:	Eyes, skin, res	spiratory system	
Symptoms:	irritation eyes,	skin, mucous membrane	
Australia NICNAS:	not listed	Canada CEPA 1999:	DSL yes
Japan CSCL/PRTR:	not listed		
Japan PDSCL:	not listed	Japan ISHL:	not listed
South Korea TCCA:	not listed		
Korea Exist.Chem.Inv	ventory: KE-05339		
LD50 _{orl rat} :	>5000 mg/kg		
LC50 _{ihl rat} :	>5800 _{4h} mg/m³		
LD50drm rbt :	>2000 mg/kg		



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	Chemical:	indicator dye(s)	CAS No.: -
	Chemical:	PVC foil (CAS 9002-86-2)	CAS No.: -
SECT	ION 12: Ecologica	al information	
12.1	Toxicity Following information is	s valid for pure substances.	
	100 Indicator sticks Chemical: WGK (DE): Storage class (V	<i>cellulose</i> nwg	CAS No.: 9004-34-6
	Chemical: Storage class (V	indicator dye(s) /CI): 12-13	CAS No.: -
	Chemical:	PVC foil (CAS 9002-86-2)	CAS No.: -
12.2	Persistence and degradability		
12.3	Bioaccumulative po	otential	
12.4	Mobility in soil no data available		
12.5	Results of PBT and no data available	I vPvB assessment	
12.6	Other adverse effect no data available	cts	
SECT	ION 13: Disposal	considerations	
N 13.1	ot necessary. Waste treatment m	ethods	
	GENERAL: Empty solids	into municipal waste, empty liquids diluted into	drains.
	ION 14: Transport	t information	
^{1,} 14.5	4.1 - 14.4 Not necessary Environmental haz	ards	
1.10	not necessary		
14.6	Special precaution not necessary	s for user	
14.7	Transport in bulk according to Annex II of MARPOL and the IBC Code not applicable		
SECT	ION 15: Regulator	ry Information	
15.1	Safety, health and	environmental regulations/legislatio	on specific for the substance or mixture

15.2 Chemical safety assessment not necessary for these small amounts



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SECTION 16: Other Information

16.1 List of R, H and P phrases

- 16.1.1 List of relevant R phrases
- 16.1.2 List of relevant H phrases
- 16.1.3 List of relevant P phrases

16.2 **Training Advice**

Regular safety training.

16.3 **Recommended Restriction on Use** None

16.4 **Further Information**

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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 February 2015 SUVA .CH, Limits in air at work 2009, revised on 01.2009 KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

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