

# Safety Data Sheet

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

REF: 90734

Fluoride test

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Printing date: 09.05.2017

Date of issue: 28.03.2017

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

### 1.1 Product identifier

REF 90734  
Product name Fluoride test

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.

30 x Test paper (special formates)  
1 x 30 mL Hydrochloric acid 6%

### 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

Information not necessary.

You find our current versions of SDS (22 languages) in Internet:

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

## SECTION 2: Hazard identification

### 2.0 Classification of the complete product

#### Directive 1999/45/EC

Symbols -  
R -

#### CLP Directive 1272/2008/EC

GHS pictograms -

Hazard identification	Hazard classes/categories
H290	Met. Corr. 1

### 2.1 Classification of the substance or mixture

#### Test paper (special formates)

##### Directive 1999/45/EC

Symbols - do not need labelling as hazardous

##### CLP Directive 1272/2008/EC

GHS pictograms - do not need labelling as hazardous  
Signal word -

No hazard class

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## 30 mL Hydrochloric acid 6%

Directive 1999/45/EC

Symbols - do not need labelling as hazardous

CLP Directive 1272/2008/EC

GHS pictograms - do not need labelling as hazardous  
Signal word -

Hazard identification	Hazard classes/categories
H290	Met. Corr. 1

## 2.2 Label elements

### Test paper (special formates)

Directive 1999/45/EC

Symbols:  
-  
-

CLP Directive 1272/2008/EC

GHS pictograms:  
do not need labelling as hazardous  
Signal word: -

## 30 mL Hydrochloric acid 6%

Directive 1999/45/EC

Symbols:  
-  
-

CLP Directive 1272/2008/EC

GHS pictograms:  
do not need labelling as hazardous  
Signal word: -

## 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

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### Information pertaining to particular Risks to the Environment

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### Other Hazards

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## SECTION 3: Composition/Information on Ingredients

### 3.1 Substances or 3.2 Mixtures

#### Test paper (special formates)

Chemical:	<i>filter paper (cellulose CAS 9004-34-6)</i>	CAS No.:	-
Concentration:	80 - <100 %		
Formula:	(C <sub>6</sub> H <sub>10</sub> O <sub>5</sub> ) <sub>n</sub>		
REACH Reg. No.:	exempt, Annex IV		
EC No.:	232-674-9		
RTECS:	FJ5691460		
TSCA Inventory:	listed		
KE No.:	KE-05339		
acc. 1999/45/EC:	-	acc. CLP (GHS):	not necessary
Chemical:	<i>chemicals/mixture &lt; 1%, no declaration necessary</i>	CAS No.:	-
Concentration:	0,1 - <1 %		
TSCA Inventory:	all <1%		
KE No.:	listed		
acc. 1999/45/EC:	-	acc. CLP (GHS):	not necessary

#### 30 mL Hydrochloric acid 6%

Chemical:	<i>hydrochloric acid</i>	CAS No.:	7647-01-0
Concentration:	1 - <10 %		
Formula:	HCl•H <sub>2</sub> O		
Pseudonym:	aqueous hydrogen chloride		
REACH Reg. No.:	01-2119484862-27-xxxx		
EC No.:	231-595-7	Indice No.:	017-002-01-X
RTECS:	MW4025000		
TSCA Inventory:	listed		
KE No.:	KE-20189, >10% Toxic 97-1-203, Acc. Precaution Chem.		
acc. 1999/45/EC:	-	acc. CLP (GHS):	H290

### 3.3 Remarks

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## 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. ---

## 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.

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## 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

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## SECTION 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

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## SECTION 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 (VCI):

8B

Water hazard class (DE):

1

### 7.2.1 Requirements for Stock Rooms and Containers

Keep original product packages tightly closed during handling and storage.

### 7.3 Specific end use(s)

Product for analytical use.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Test paper (special formates)

Chemical: *filter paper (cellulose CAS 9004-34-6)*

CAS No.: -

TRGS 900 (DE):

1.25 A / 4 E mg/m<sup>3</sup>

E/e respirable

SUVA(CH) MAK value:

3 a mg/m<sup>3</sup>

NIOSH:

not listed

[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA:

not listed

Chemical:

*chemicals/mixture < 1%, no declaration necessary*

CAS No.: -

#### 30 mL Hydrochloric acid 6%

Chemical: *hydrochloric acid*

CAS No.: 7647-01-0

DNEL:

8<sub>inh</sub> mg/m<sup>3</sup>

DNEL = Derived No-Effect Level (for workers)

PNEC(fresh water):

36 µg/L

PNEC = Predicted No Effect Concentration

EU value:

5 ppm / 8 mg/m<sup>3</sup>

TRGS 900 (DE):

2 mL/m<sup>3</sup> / 3 mg/m<sup>3</sup>

E/e respirable

Short-term exposure factor:

2 (I), Y

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value:

2 ppm / 3\* mg/m<sup>3</sup>

NIOSH:

C 5 ppm / 7 mg/m<sup>3</sup>

[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

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OSHA:  
mg/m<sup>3</sup>

List of highly hazardous chemicals, toxics and reactives Yes (TQ = 5000 lbs) n/a; TWA 5 ppm / 7

## 8.2 Exposure controls

Not necessary.

### 8.2.1 Respiratory Protection

Not necessary.

### 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.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Test paper (special formates)

Appearance: solid

Colour: colored

Odor: odorless

#### 30 mL Hydrochloric acid 6%

Appearance: liquid

Colour: colourless

Odor: odorless

pH:

0

Specific gravity:

1.03 g/cm<sup>3</sup>

### 9.2 Other information

Relevant Properties of Substance Group

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None

### 10.2 Chemical stability

No known instability.

### 10.3 Possibility of hazardous reactions

None.

### 10.4 Conditions to avoid

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### 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.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Following information is valid for pure substances.

Test paper (special formates)

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Chemical: *filter paper (cellulose CAS 9004-34-6)* CAS No.: -  
TSCA Inventory: listed California Proposition 65 List: not listed  
Australia NICNAS: not listed Canada CEPA 1999: DSL yes  
Japan CSCL/PRTR: not listed Japan ISHL: not listed  
Japan PDSCL: not listed  
South Korea TCCA: not listed  
Korea Exist.Chem.Inventory: KE-05339  
LD50<sub>orl rat</sub>: >5000 mg/kg  
LC50<sub>ihl rat</sub>: >5800<sub>4h</sub> mg/m<sup>3</sup>  
LD50<sub>drm rbt</sub>: >2000 mg/kg

Chemical: *chemicals/mixture < 1%, no declaration necessary* CAS No.: -  
TSCA Inventory: all <1%  
Korea Exist.Chem.Inventory: listed

## 30 mL Hydrochloric acid 6%

Chemical: *hydrochloric acid* CAS No.: 7647-01-0  
TSCA Inventory: listed California Proposition 65 List: not listed  
Exposure Routes: inhalation, ingestion (solution), skin and/or eye contact  
Target Organs: Eyes, skin, respiratory system  
Symptoms: irritation nose, throat, larynx; cough, choking; dermatitis; solution: eye, skin burns; liquid: frostbite; in animals: laryngeal spasm; pulmonary edema  
Australia NICNAS: not listed Canada CEPA 1999: DSL Yes  
Japan CSCL/PRTR: not listed  
Japan PDSCL: Deleterious Substance Japan ISHL: listed ≥0,2%/≥0,1%, Article 57-2 (SDS required)  
South Korea TCCA: Accident Precaution Chemical Yes  
Korea Exist.Chem.Inventory: KE-20189, >10% Toxic 97-1-203, Acc. Precaution Chem.  
LD50<sub>orl rat</sub>: 900 mg/kg  
LC50<sub>drm rbt</sub>: >5010 mg/kg

## SECTION 12: Ecological information

### 12.1 Toxicity

Following information is valid for pure substances.

#### Test paper (special formates)

Chemical: *filter paper (cellulose CAS 9004-34-6)* CAS No.: -  
Water hazard class (DE): nwg  
Storage class (VCI): 11

Chemical: *chemicals/mixture < 1%, no declaration necessary* CAS No.: -  
Water hazard class (DE): 1  
Storage class (VCI): 12-13

#### 30 mL Hydrochloric acid 6%

Chemical: *hydrochloric acid* CAS No.: 7647-01-0  
PNEC<sub>(fresh water)</sub>: 36 µg/L  
PNEC = Predicted No Effect Concentration  
LC50<sub>fish/96h</sub>: 24.6 mg/L  
EC50<sub>daphnia/48h</sub>: 0.492 mg/L  
EC50<sub>pseudokirchneriella subcapitata/72h</sub>: 0.78 mg/L  
Water hazard class (DE): 1 WGK No.: 0238  
Storage class (VCI): 8 B

### 12.2 Persistence and degradability

not necessary

### 12.3 Bioaccumulative potential

not necessary

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## 12.4 Mobility in soil

not necessary

## 12.5 Results of PBT and vPvB assessment

no data available

## 12.6 Other adverse effects

no additional data available

## SECTION 13: Disposal considerations

Not necessary.

### 13.1 Waste treatment methods

GENERAL: Empty solids into municipal waste, empty liquids diluted into drains.

## SECTION 14: Transport information

14.1 - 14.4: No dangerous goods according to the transport regulations

### 14.5 Environmental hazards

not necessary

### 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

### 15.2 Chemical safety assessment

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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

H290 May be corrosive to metals.

#### 16.1.3 List of relevant P phrases

P390 Absorb spillage to prevent material damage.

### 16.2 Training Advice

Regular safety training.

### 16.3 Recommended Restriction on Use

None

### 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 September 2016

SUVA .CH, Limits in air at work 2009, revised on 01.2009

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KÜHN, BIRETT      Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

### Revisions/Updates

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