

Safety Data Sheet

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

REF: 91318

QUANTOFIX Cyanide

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Printing date: 15.11.2021

Date of issue: 14.02.2019

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

1.1 Product identifier

REF 91318
Product name QUANTOFIX Cyanide

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 100 test strips
1 x 7 g CN⁻ -1
1 x 25 mL CN⁻ -2

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

1.3 Details of the supplier of the safety data sheet

Manufactured by:

MACHEREY-NAGEL GmbH & Co. KG
Valenciennener Str. 11, 52355 Düren, GERMANY
Tel.: +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

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

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

SECTION 2: Hazard identification

2.0 Classification of the complete product



GHS02 GHS07 GHS08

Signal word DANGER

Hazard identification	Hazard classes/categories
H226	Flam. Liq. 3
H315	Skin Irrit. 2
H319	Eye Irrit. 2
H332	Acute Tox. 4 inh.
H334	Resp. Sens. 1

2.1 Classification of the substance or mixture

100 test strips

Do not need labelling as hazardous

Signal word -

No hazard class

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7 g CN⁻ -1

Signal word

Do not need labelling as hazardous

-

No hazard class

25 mL CN⁻ -2



GHS02

GHS07

GHS08

Signal word

DANGER

Hazard identification

Hazard classes/categories

H226

Flam. Liq. 3

H315

Skin Irrit. 2

H319

Eye Irrit. 2

H332

Acute Tox. 4 inh.

H334

Resp. Sens. 1

2.2 Label elements

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

Harmful chemicals/mixtures with signal word: **WARNING** and highly flammable chemicals/mixtures must not be labelled with H and P phrases until **125 mL** (EU 1272/2008 Annex I - 1.5.2). This labelling exemption is NOT valid for sensibilizing substances.

100 test strips

Do not need labelling as hazardous

Signal word: -

7 g CN⁻ -1

Do not need labelling as hazardous

Signal word: -

25 mL CN⁻ -2



GHS02



GHS07



GHS08

Signal word: DANGER

H334

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

P261sh, P342+311

Avoid breathing dust/vapours. If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

2.3 Other hazards

Possible hazards from physicochemical properties

In the case of pH values are less than 5 or higher than 9 then it is irritant. Flammable properties. ---

Information pertaining to particular risks to human and possible symptoms

Cause after impairments of health when ingested in small quantities. May cause allergy or asthma symptoms or breathing difficulties if inhaled. -

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Information pertaining to particular risks to the environment

PBT: not applicable

vPvB: not applicable

Other hazards

Contains an odor intensive reagent. ---

SECTION 3: Composition/information on ingredients

3.1 Substances or 3.2 Mixtures

100 test strips

Chemical: *cellulose*

CAS No.: 9004-34-6

Classification: No criteria for classification or naming of chemical not required.

Formula: $(C_6H_{10}O_5)_n$

TSCA Inventory: listed

REACH Reg. No.: exempt, Annex IV

EC No.: 232-674-9

RTECS: FJ5691460

KE No.: KE-05339

Concentration: 1 - <10 %

acc. CLP (GHS): The criteria for classification are not fulfilled.

Chemical: *chemicals/mixture < 1%*

CAS No.: -

Classification: No criteria for classification or naming of chemical not required.

TSCA Inventory: all listed, <1%

KE No.: listed

Concentration: 0.1 - <1 %

acc. CLP (GHS): The criteria for classification are not fulfilled.

Chemical: *PVC foil (CAS 9002-86-2)*

CAS No.: -

Classification: No criteria for classification or naming of chemical not required.

TSCA Inventory: listed

Concentration: 95 - <100 %

acc. CLP (GHS): The criteria for classification are not fulfilled.

7 g CN⁻ -1

Chemical: *phosphates (buffer salts)*

CAS No.: -

Classification: No criteria for classification or naming of chemical not required.

Formula: $K/Na_{1-3}H_{2-0}PO_4$

TSCA Inventory: all listed

KE No.: listed

Concentration: 75 - <100 %

acc. CLP (GHS): The criteria for classification are not fulfilled.

25 mL CN⁻ -2

Chemical: *pyridine*

CAS No.: 110-86-1

Classification: H225, Flam. Liq. 2, H302, Acute Tox. 4 oral, H312, Acute Tox. 4 derm., H332, Acute Tox. 4 inh.

Formula: C_5H_5N

Pseudonym: Azabenzene, Azine

TSCA Inventory: listed

REACH Reg. No.: 01-2119493105-40-xxxx

EC No.: 203-809-9

RTECS: UR8400000

KE No.: KE-29929

Concentration: 32 - <44 %

acc. CLP (GHS): H226, Flam. Liq. 3, H332, Acute Tox. 4 inh.

Indice No.:

613-002-00-7

MFCD:

00011732

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Chemical:	<i>chloramine T</i>			CAS No.:	127-65-1
Classification:	H302, Acute Tox. 4 oral, H314, Skin Corr. 1B, H334, Resp. Sens. 1, EUH031, 031 not defined				
Formula:	$C_7H_7ClNNaO_2S$				
Pseudonym:	tosylchloramide sodium, Benzenesulfonamide, N-chloro-4-methyl-benzenesulfonamide, sodium salt				
TSCA Inventory:	listed				
EC No.:	204-854-7	Indice No.:	616-010-00-9		
RTECS:	XT5616800	MFCD:	00000522		
KE No.:	2000-3-1539				
Concentration:	1 - <3 %				
acc. CLP (GHS):	H315, Skin Irrit. 2, H319, Eye Irrit. 2, H334, Resp. Sens. 1				

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 16.1

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. 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. Rinse the affected skin or mucous membrane thoroughly under running water. (If possible) use soap.

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

After inhalation of foam or vapour fresh air should be inhaled. 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 should be drunk after it has been ingested. ---

4.2 Most important symptoms and effects, both acute and delayed

Chronic Effects: May cause sensitization by skin contact, also in repeated contact of small amounts. May cause allergy or asthma symptoms or breathing difficulties if inhaled. ---

4.3 Indication of any immediate medical attention and special treatment needed

Inform patient respectively further measures and the possibility of long-term damages. ---

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

WARNING: Flammable (GHS regulation). May form explosive vapour-air mixtures. Formation of hazardous and caustic vapour-air mixtures possible. ---

5.3 Advice for firefighters

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

5.4 Additional information

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Regular staff training is necessary, indicating hazards and precautions on the basis of operating instructions. Restrictions on activity must be observed.

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6.2 Environmental precautions

not necessary

6.3 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.

6.4 Reference to other sections

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.

Storage class (VCI): 3

Water hazard class (DE): 2

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.

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 test strips

Chemical: cellulose

CAS No.: 9004-34-6

TRGS 900 (DE): Staub 1.25 A / 4 E mg/m³
E/e respirable

SUVA(CH) MAK value: 3 a ppm

NIOSH: TWA 10 (total) / 5 (resp) mg/m³

[TWA] Time-weighted average 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

Chemical: chemicals/mixture < 1%

CAS No.: -

Chemical: PVC foil (CAS 9002-86-2)

CAS No.: -

7 g CN⁻ -1

Chemical: phosphates (buffer salts)

CAS No.: -

25 mL CN⁻ -2

Chemical: pyridine

CAS No.: 110-86-1

PNEC(fresh water): 300 µg/L
PNEC = Predicted No Effect Concentration

EU value: [TWA] 5 ppm / 15 mg/m³

TRGS 900 (DE): [8h] 5 ppm / 15 mg/m³
E/e respirable

Short-term exposure factor: 2 (II)

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

SUVA(CH) MAK value: 5 ppm / 15 mg/m³

NIOSH: [TWA] 5 ppm / 15 mg/m³

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

OSHA: [TWA] 5 ppm / 15 mg/m³

Chemical: chloramine T

CAS No.: 127-65-1

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

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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

100 test strips

Appearance: solid

Colour: colored

Odor: odorless

7 g CN⁻ -1

Appearance: powder (solid)

Colour: colourless

Odor: odorless

pH:

8-9

Solubility in water:

0-40 %

25 mL CN⁻ -2

Appearance: liquid

Colour: colourless

Odor: like pyridine

pH:

8-9

Flash point:

27 °C

Specific gravity:

0,99 g/cm³

Solubility in water:

0-100 %

9.2 Other information

Relevant Properties of Substance Group

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

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.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Following information is valid for pure substances. Quantitative data on the toxicity of this product are not available.

100 test strips

Chemical:	cellulose	CAS No.: 9004-34-6
TSCA Inventory:	listed	California Proposition 65 List: not listed
Exposure Routes:	inhalation, skin and/or eye contact	
Target Organs:	Eyes, skin, respiratory 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.Inventory:	KE-05339	
LD50 _{orl rat} :	>5000 mg/kg	
LC50 _{ihl rat} :	>5800 _{4h} mg/m ³	
LD50 _{drm rbt} :	>2000 mg/kg	

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

Chemical:	PVC foil (CAS 9002-86-2)	CAS No.: -
TSCA Inventory:	listed	

7 g CN- -1

Chemical:	phosphates (buffer salts)	CAS No.: -
TSCA Inventory:	all listed	
Korea Exist.Chem.Inventory:	listed	
LD50 _{orl rat} :	> 2000 mg/kg	

25 mL CN- -2

Chemical:	pyridine	CAS No.: 110-86-1
TSCA Inventory:	listed	California Proposition 65 List: listed cancer
Exposure Routes:	inhalation, skin absorption, ingestion, skin and/or eye contact	
Target Organs:	Eyes, skin, central nervous system, liver, kidneys, gastrointestinal tract,	
Symptoms:	irritation eyes; headache, anxiety, dizziness, insomnia; nausea, anorexia; dermatitis; liver, kidney	
damage		
Japan CSCL/PRTR:	PRTR: ≥1,0% class I	
Japan ISHL:	listed ≥1,0%/≥0,1%,	
Korea Exist.Chem.Inventory:	KE-29929	
LD50 _{orl rat} :	800-1600 mg/kg	
LC _{Lowihl rat} :	[4h] 4900 ppm	
LC _{Loworl gpg} :	4000 mg/kg	
LC _{Loworl hmn} :	500 mg/kg	
LC50 _{ihl rat} :	28500 _{1h} mg/m ³	
LD50 _{drm rbt} :	1000-2000 mg/kg	
Acute Effects:	Cause after skin contact, impairments of health when ingested in small quantities.	
TRGS 905 (DE):	[DFG] carc. 3B	

Chemical:	chloramine T	CAS No.: 127-65-1
TSCA Inventory:	listed	California Proposition 65 List: not listed
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.Inventory:	2000-3-1539	
LD50 _{orl rat} :	~1000 mg/kg	
Acute Effects:	Cause after impairments of health when ingested in small quantities.	
Chronic Effects:	May cause sensitization by skin contact, also in repeated contact of small amounts. May cause allergy or asthma symptoms or breathing difficulties if inhaled.	

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SECTION 12: Ecological information

12.1 Toxicity

Following information is valid for pure substances.

100 test strips

Chemical: *cellulose*

CAS No.: 9004-34-6

Water hazard class (DE): nwg

Storage class (VCI): 11

Chemical: *chemicals/mixture < 1%*

CAS No.: -

Water hazard class (DE): 1

Storage class (VCI): 12-13

Chemical: *PVC foil (CAS 9002-86-2)*

CAS No.: -

7 g CN⁻ -1

Chemical: *phosphates (buffer salts)*

CAS No.: -

Water hazard class (DE): 1

Storage class (VCI): 13

25 mL CN⁻ -2

Chemical: *pyridine*

CAS No.: 110-86-1

PNEC(fresh water): 300 µg/L

PNEC = Predicted No Effect Concentration

LC50_{fish/96h}: [EC50 4h] 560-1000 mg/L

EC50_{daphnia/48h}: 320 mg/L

IC50_{scenedesmus quadricauda/72h}: IC50/7d: 120 mg/L

EC10_{pseudomonas putida/16h}: [EC50 72h] 320 mg/L mg/L

Water hazard class (DE): 2 WGK No.: 0179

Dispersion coefficient_(octanol-water): 0.64

Storage class (VCI): 3

Chemical: *chloramine T*

CAS No.: 127-65-1

Water hazard class (DE): 2 WGK No.: 0640

Storage class (VCI): 8 A

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

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).

13.1 Waste treatment methods

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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
Classification code: M11 Tunnel restriction code: E
Limited Quantity: acc. ADR 3.3.1/251: see LQ in Alternative declaration for transportation
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

Or use **Alternative declaration for transportation:**

UN 1993 class 3 III, **Excepted Quantities** ($\leq 30 \text{ mL}/\Sigma \leq 1 \text{ L}$) = ADR/ IATA E1

or

14.1 UN number: 1993 **14.2 UN proper shipping name:** Flammable liquid, n.o.s. (pyridine mixture)
14.3 Class: 3 **14.4 Packing group:** III
Road transport
Classification code: F1 Tunnel restriction code: E
Limited Quantity: 5 L Special instructions: 640E
Excepted Quantity: E 1
Air transport
PAX: 355 max. weight PAX: 60 L
CAO: 366 max. weight CAO: 220 L
Maritime transport
EmS: F-E, S-E Storage category: A

14.5 Environmental hazards

none

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
MN Leaflet/User manual, also see www.mn-net.com
Look for your country-specific regulations.

15.2 Chemical safety assessment

not necessary for these small amounts ---

SECTION 16: Other information

16.1 List of H and P phrases

16.1.1 List of relevant H phrases

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

16.1.2 List of relevant P phrases

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P261sh Avoid breathing dust/vapours.
P280sh Wear protective gloves/eye protection.

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P304+340
P342+311

IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

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 ArbSchG)!

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 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

Regulation 669/2018/EU, 4th adaptation of CLP regulation to technical and scientific progress

Regulation 1480/2018/EU, 4th adaptation of CLP regulation to technical and scientific progress

Regulation 849/2021/EU, 4th adaptation of CLP regulation to technical and scientific progress

TRGS 900, German engineering rules governing limits in air at work, updated 03/2019

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

TRGS 907, German engineering rules governing listing of substances and causes of sensitizations, updated November 2011

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

Revisions/Updates

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